

NASA-CR-170521

SVS-10266

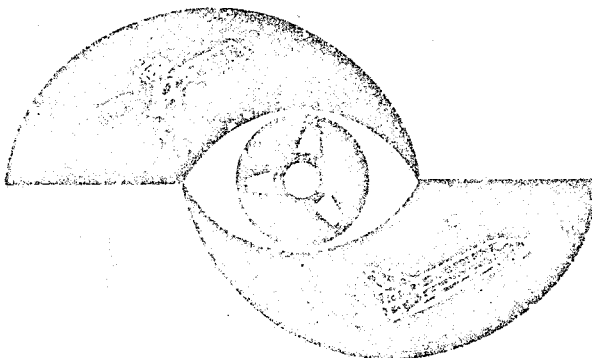
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E83-10287

LANDSAT-D FLIGHT SEGMENT OPERATIONS MANUAL

APPENDIX A

(E83-10287) LANDSAT-D FLIGHT SEGMENT
OPERATIONS MANUAL. APPENDIX A:
COEFFICIENTS/CALIBRATION DATA (General
Electric Co.) 671 p HC A99/MF A01 CS: L 12B
N83-27289
G3/43 00287
Unclas



CONTRACT NO.
NAS 5-25300

GENERAL ELECTRIC

A83-10287

167

GENERAL ELECTRIC SPACE SYSTEMS PHILA. PA.		SECURITY CLASS. UNCL	CONTRACT NAS 5-25300	ALTERATION NO. SVS-10266/3-1
INITIATOR A GILMORE		RM. NO. 07035	EXT. NO. 2782	OPER. NO. 1040
DRAWING OR SPECIFICATION TITLE LANDSAT D Ops MANUAL - APPENDIX A		REG. AN. LTR. AN. SHEET DWS PL SWG PL 1 OF 1 GEN AN. EMER		
NATURE OF CHANGE REPLACEMENT OF APPENDIX 'A'		NEXT ASSEMBLY NO.		
REASON FOR CHANGE ADD CALIBRATION DATA		AREA OR END ITEM		
		EPR NO.		
		ECP NO.		
		CONTROL NO.		

REPLACE ENTIRE DOCUMENT APPENDIX "A"
SEE SVS-10266, APPENDIX A FOR WAS CONDITION

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PROGRAM AND/OR MODEL NO. LANDSAT D		EFFECTIVITY LANDSAT D		CLASS 2	CODE —	TYPE —
DISPOSITION OF MATERIAL		CHANGE AFFECTS			APPROVALS AND DATE	
IN STOCK IN STOCK COMPLETED INSTLO IN TEST QUAL. IN FIELD NONE		SPEC.	INTCHG	RETROFIT	WRITTEN BY	
		PERFORMANCE	COST		CHECKED BY	
		SAFETY	DELIVERY		R. C. Clanton 7/19/82	
REWORK		RFI	SPARES	NONE	FORB and ERB	
SCRAP		Δ WEIGHT	Δ POWER	Δ RPM	DRAWING CHIEF BY	
RETROFIT		OTHER OPERATIONS AFFECTED			DESIGN ENG.	
RET TO STOCK		DISTRIBUTION CODE			QC CH	
REQUALIFY		SVS-10266/3			PROD. CONTROL	
RETEST		DIST VERIFIED ECH			CUSTOMER	
NONE		SECURITY CLASS.			DCS REP.	
EXPLAN. FOR MAT'L. DISP.		UNCL			DCS CHAIRMAN	
PARTS CONFORM		8-10-82 RCR			E. J. Kasper 7/31/82	

APPENDIX A
COEFFICIENTS/CALIBRATION DATA

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LANDSAT-D
FLIGHT SEGMENT
OPERATIONS MANUAL
APPENDIX A
COEFFICIENTS/CALIBRATION DATA

Prepared For
Goddard Space Flight Center
Greenbelt, Maryland 20771
Under
Contract No. NAS5-25300

General Electric Company
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Print Control & Reproduction

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This log identifies those portions of this specification which have been revised since original issue. Revised portions of each page, for the current revision only, are identified by marginal striping.

Revision	Paragraph Number(s) Affected	Rev. Date
A	ALL - inc. AN-1	June 1982 PRR 8-10-82 JH

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APPENDIX A.1

INTRODUCTION

Explanation of Telemetry Calibration Curves

Telemetry calibration curves for the Landsat-D subsystems are defined by nth order polynomial equations which convert telemetry counts to engineering units:

$$Y = A_0 + A_1 X + A_2 X^2 + \dots + A_n X$$

where A_0 through A_n = constant coefficients

X = telemetry counts

Y = engineering units

The calibration curve coefficients for each telemetry point are controlled in the data base. They are listed along with the unit section number where the sensor is located. Tables showing the coefficients may be obtained from the data base administrator. The tables show telemetry counts versus engineering units.

A typical set of calibration data is shown in Table A.1-1. This table represents RIU 01 A temperature (CTRIUA) calibration data for the CSDH subsystem. A_0 through A_5 are coefficients of a 5th order polynomial equation used to convert telemetry counts to engineering units (temperature in $^{\circ}\text{C}$). An example of how to use this table to obtain RIU 01 A temperature is shown below.

Suppose the telemetry readout is 3 counts. Substituting 3 counts for X in the polynomial equation, and using the values for A_0 through A_5 given in Table A.1-1,

$$Y = .1234 \times 10^3 - (.2073 \times 10^1) (3) + .2266 \times 10^1 (3^2) \\ - 0.1514 \times 10^3 (3^3) + .5174 \times 10^{-6} (3^4) - .7163 \times 10^{-9} (3^5)$$

Therefore,

$$Y(\text{RIU 01 A temperature}) = .1174 \times 10^3 \text{ }^{\circ}\text{C} \quad (\text{See Table A.1-2})$$

NOTE: No value given for a coefficient in the calibration data tables indicates that the coefficient is not used.

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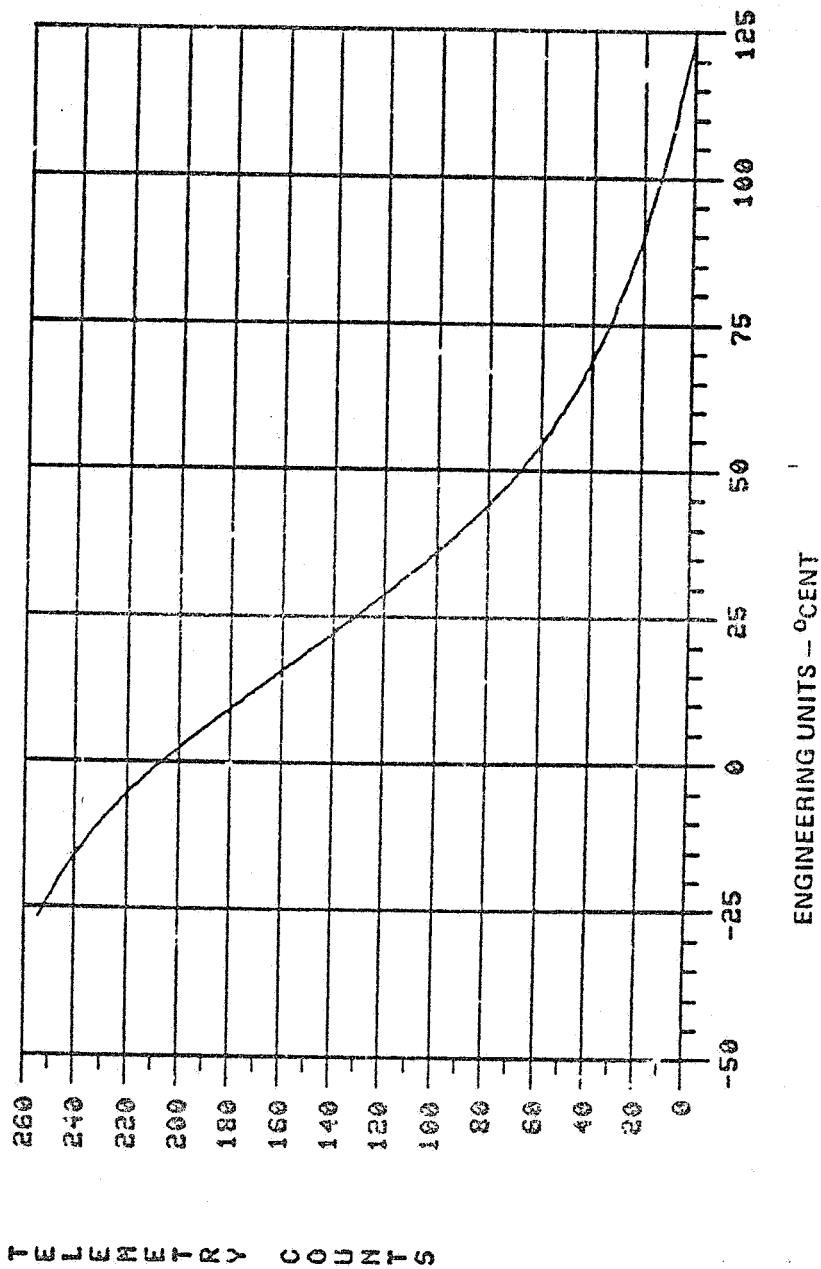
Table 4.1-1. Counts vs Engineering Units for CTRIUA

COUNTS VS ENGINEERING UNITS FOR CTRIUA									
COEFFICIENTS: A0=0.1234E+03 A1=-0.2073E+01 A2=0.2266E-01 A3=-0.1514E-03 A4=0.5174E-06 A5=-0.7165E-09									
COUNTS	ENG UNITS	COUNTS	ENG UNITS	COUNTS	ENG UNITS	COUNTS	ENG UNITS	COUNTS	ENG UNITS
0	0.1234E+03	52	0.5910E+02	104	0.3435E+02	156	0.1675E+02	208	-0.7111E+00
1	0.1214E+03	53	0.5842E+02	105	0.3399E+02	157	0.1643E+02	209	-0.1096E+01
2	0.1194E+03	54	0.5776E+02	106	0.3363E+02	158	0.1610E+02	210	-0.1985E+01
3	0.1174E+03	55	0.5711E+02	107	0.3327E+02	159	0.1578E+02	211	-0.1878E+01
4	0.1155E+03	56	0.5648E+02	108	0.3291E+02	160	0.1546E+02	212	-0.2276E+01
5	0.1135E+03	57	0.5585E+02	109	0.3255E+02	161	0.1513E+02	213	-0.2679E+01
6	0.1116E+03	58	0.5523E+02	110	0.3219E+02	162	0.1481E+02	214	-0.3086E+01
7	0.1100E+03	59	0.5463E+02	111	0.3184E+02	163	0.1449E+02	215	-0.3499E+01
8	0.1083E+03	60	0.5404E+02	112	0.3149E+02	164	0.1416E+02	216	-0.3918E+01
9	0.1065E+03	61	0.5345E+02	113	0.3113E+02	165	0.1384E+02	217	-0.4341E+01
10	0.1048E+03	62	0.5288E+02	114	0.3078E+02	166	0.1352E+02	218	-0.4771E+01
11	0.1032E+03	63	0.5231E+02	115	0.3043E+02	167	0.1320E+02	219	-0.5207E+01
12	0.1015E+03	64	0.5176E+02	116	0.3009E+02	168	0.1287E+02	220	-0.5649E+01
13	0.9997E+02	65	0.5121E+02	117	0.2974E+02	169	0.1255E+02	221	-0.6098E+01
14	0.9843E+02	66	0.5067E+02	118	0.2939E+02	170	0.1223E+02	222	-0.6554E+01
15	0.9693E+02	67	0.5014E+02	119	0.2905E+02	171	0.1191E+02	223	-0.7017E+01
16	0.9546E+02	68	0.4962E+02	120	0.2870E+02	172	0.1158E+02	224	-0.7488E+01
17	0.9402E+02	69	0.4911E+02	121	0.2835E+02	173	0.1126E+02	225	-0.7966E+01
18	0.9261E+02	70	0.4860E+02	122	0.2802E+02	174	0.1094E+02	226	-0.8452E+01
19	0.9123E+02	71	0.4810E+02	123	0.2768E+02	175	0.1062E+02	227	-0.8946E+01
20	0.8989E+02	72	0.4761E+02	124	0.2734E+02	176	0.1029E+02	228	-0.9449E+01
21	0.8856E+02	73	0.4712E+02	125	0.2700E+02	177	0.9968E+01	229	-0.9961E+01
22	0.8728E+02	74	0.4664E+02	126	0.2666E+02	178	0.9435E+01	230	-0.1048E+02
23	0.8601E+02	75	0.4617E+02	127	0.2632E+02	179	0.9318E+01	231	-0.1101E+02
24	0.8478E+02	76	0.4570E+02	128	0.2598E+02	180	0.8993E+01	232	-0.1155E+02
25	0.8357E+02	77	0.4524E+02	129	0.2564E+02	181	0.8666E+01	233	-0.1210E+02
26	0.8239E+02	78	0.4478E+02	130	0.2531E+02	182	0.8392E+01	234	-0.1267E+02
27	0.8124E+02	79	0.4433E+02	131	0.2497E+02	183	0.8012E+01	235	-0.1324E+02
28	0.8011E+02	80	0.4398E+02	132	0.2464E+02	184	0.7683E+01	236	-0.1382E+02
29	0.7901E+02	81	0.4365E+02	133	0.2430E+02	185	0.7354E+01	237	-0.1442E+02
30	0.7792E+02	82	0.4331E+02	134	0.2397E+02	186	0.7033E+01	238	-0.1502E+02
31	0.7687E+02	83	0.4298E+02	135	0.2364E+02	187	0.6692E+01	239	-0.1564E+02
32	0.7583E+02	84	0.4265E+02	136	0.2330E+02	188	0.6359E+01	240	-0.1628E+02
33	0.7482E+02	85	0.4232E+02	137	0.2297E+02	189	0.6025E+01	241	-0.1692E+02
34	0.7383E+02	86	0.4199E+02	138	0.2264E+02	190	0.5690E+01	242	-0.1758E+02
35	0.7286E+02	87	0.4091E+02	139	0.2231E+02	191	0.5353E+01	243	-0.1825E+02
36	0.7191E+02	88	0.4050E+02	140	0.2198E+02	192	0.5015E+01	244	-0.1894E+02
37	0.7098E+02	89	0.4009E+02	141	0.2165E+02	193	0.4675E+01	245	-0.1964E+02
38	0.7007E+02	90	0.3969E+02	142	0.2132E+02	194	0.4333E+01	246	-0.2036E+02
39	0.6917E+02	91	0.3929E+02	143	0.2099E+02	195	0.3989E+01	247	-0.2109E+02
40	0.6830E+02	92	0.3889E+02	144	0.2066E+02	196	0.3643E+01	248	-0.2184E+02
41	0.6745E+02	93	0.3850E+02	145	0.2033E+02	197	0.3296E+01	249	-0.2261E+02
42	0.6661E+02	94	0.3811E+02	146	0.2001E+02	198	0.2946E+01	250	-0.2339E+02
43	0.6579E+02	95	0.3772E+02	147	0.1968E+02	199	0.2593E+01	251	-0.2420E+02
44	0.6496E+02	96	0.3734E+02	148	0.1935E+02	200	0.2238E+01	252	-0.2501E+02
45	0.6421E+02	97	0.3696E+02	149	0.1903E+02	201	0.1881E+01	253	-0.2585E+02
46	0.6342E+02	98	0.3658E+02	150	0.1870E+02	202	0.1520E+01	254	-0.2671E+02
47	0.6267E+02	99	0.3620E+02	151	0.1837E+02	203	0.1156E+01	255	-0.2759E+02
48	0.6193E+02	100	0.3583E+02	152	0.1805E+02	204	0.7899E+00		
49	0.6120E+02	101	0.3546E+02	153	0.1772E+02	205	0.4202E+00		
50	0.6048E+02	102	0.3509E+02	154	0.1740E+02	206	0.4601E-01		
51	0.5978E+02	103	0.3472E+02	155	0.1707E+02	207	-0.3302E+00		

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Table A.1-2. Calibration Curve
COUNTS VS ENGINEERING UNITS FOR CTRIUA



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APPENDIX A.2

REFERENCE

Landsat-D Data Base (Rev. 19, 5/28/82)

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APPENDIX A.3

MODULAR ATTITUDE CONTROL SYSTEM (MACS) TELEMETRY CALIBRATION DATA

The calibration curve coefficients for each telemetry point are controlled in the data base. They are listed along with the unit section number where the sensor is located. Tables showing the coefficients may be obtained from the data base administrator. The tables show telemetry volts (counts) vs. engineering units.

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MACS CONV. DEF.

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; ADS POINT DEF.
POINT AAIRUXPN ; ACE A IRU ROLL POSITION in degrees
COEFF AAIRUXPN , 0.5965E+02,-0.4660E+00
POINT AAIRUYPN ; ACE A IRU PITCH POSITION in degrees
COEFF AAIRUYPN , 0.5965E+02,-0.4660E+00
POINT AAIRUZPN ; ACE A IRU YAW POSITION in degrees
COEFF AAIRUZPN , 0.5965E+02,-0.4660E+00
POINT AAN18VLT ; ACE A -18V REG VOLTAGE in volts
COEFF AAN18VLT , -.4864E+2,.2500
POINT AAPWRCDT ; ACE A POWER CONDITIONER TEMP in deg. centigrade
COEFF AAPWRCDT , 42.97,1.056,-.04026,.4455E-3,-.2115E-5,.3616E-8
POINT AAXTAMCP ; ACE A TAM ROLL COMPENSATED SIGNAL in M Gauss
COEFF AAXTAMCP , -0.4000E+03,0.3125E+01
POINT AAYTAMCP ; ACE A TAM PITCH COMPENSATED SIGN in M Gauss
COEFF AAYTAMCP , -0.4000E+03,0.3125E+01
POINT AAZTAMCP ; ACE A TAM YAW COMPENSATED SIGNAL in M Gauss
COEFF AAZTAMCP , -0.4000E+03,0.3125E+01
POINT ABIRUXPN ; ACE B IRU ROLL POSITION in degrees
COEFF ABIRUXPN , 0.5965E+02,-0.4660E+00
POINT ABIRUYPN ; ACE B IRU PITCH POSITION in degrees
COEFF ABIRUYPN , 0.5965E+02,-0.4660E+00
POINT ABIRUZPN ; ACE B IRU YAW POSITION in degrees
COEFF ABIRUZPN , 0.5965E+02,-0.4660E+00
POINT ABN18VLT ; ACE B -18V REG VOLTAGE in volts
COEFF ABN18VLT , -.4864E+2,.2500
POINT ABPWRCDT ; ACE B POWER CONDITIONER TEMP in deg centigrade
COEFF ABPWRCDT , 42.97,1.056,-.04026,.4455E-3,-.2115E-5,.3616E-8
POINT ABXTAMCP ; ACE B TAM ROLL COMPENSATED SIGNAL in M Gauss
COEFF ABXTAMCP , -0.4000E+03,0.3125E+01
POINT ABYTAMCP ; ACE B TAM PITCH COMPENSATED SIGNAL in M Gauss
COEFF ABYTAMCP , -0.4000E+03,0.3125E+01
POINT ABZTAMCP ; ACE B TAM YAW COMPENSATED SIGNAL in M Gauss
COEFF ABZTAMCP , -0.4000E+03,0.3125E+01
POINT ACSS1Y ; CSS 1 PITCH POSITION ERROR in degrees
COEFF ACSS1Y , -21.027,.1643
POINT ACSS1Z ; CSS 1 YAW POSITION ERROR in degrees
COEFF ACSS1Z , -21.027,.1643
POINT ACSS2Y ; CSS 2 PITCH POSITION ERROR in degrees
COEFF ACSS2Y , -21.027,.1643
POINT ACSS2Z ; CSS 2 YAW POSITION ERROR in degrees
COEFF ACSS2Z , -21.027,.1643
POINT AFSSOUTX ; OPT AXIS ROT FSS X AXIS in
COEFF AFSSOUTX , -32,.00391
POINT AFSSOUTY ; OPT AXIS ROT FSS Y AXIS in
COEFF AFSSOUTY , 32,-.00391
POINT AFSSTMP ; FSS TEMP in deg. centigrade
COEFF AFSSTMP , 42.97,1.056,-.04026,.4455E-3,-.2115E-5,.3616E-8
POINT AIRUAMTI ; IRU CHANNEL A MOTOR CURRENT in Amps
COEFF AIRUAMTI , 0.0,0.814

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POINT	AIRUATMP	; IRU CHANNEL A TEMP in deg centigrade
COEFF	AIRUATMP	, 129.9,-2.056,.02139,-.1222E-3,.3498E-6,-.3937E-9
POINT	AIRUAVLT	; IRU CHANNEL A REG VOLTAGE in volts
COEFF	AIRUAVLT	, 0,.02
POINT	AIRUBMTI	; IRU CHANNEL B MOTOR CURRENT in Amps
COEFF	AIRUBMTI	, 0.0,0.814
POINT	AIRUBTMP	; IRU CHANNEL B TEMP in deg. centigrade
COEFF	AIRUBTMP	, 129.9,-2.058,.02139,-.1222E-3,.3498E-6,-.3937E-9
POINT	AIRUBVLT	; IRU CHANNEL B REG VOLTAGE in volts
COEFF	AIRUBVLT	, 0,.02
POINT	AIRUCMTI	; IRU CHANNEL C MOTOR CURRENT in Amps
COEFF	AIRUCMTI	, 0.0,0.814
POINT	AIRUCTMP	; IRU CHANNEL C TEMP in deg. centigrade
COEFF	AIRUCTMP	, 129.9,-2.058,.02139,-.1222E-3,.3498E-6,-.3937E-9
POINT	AIRUCVLT	; IRU CHANNEL C REG VOLTAGE in volts
COEFF	AIRUCVLT	, 0,.02
POINT	AIRUOBTP	; OPTICAL BENCH TEMP (IRU) in deg. centigrade
COEFF	AIRUOBTP	, 0.8441E+02,-0.1256E+01,0.7699E-02,-0.2040E-04
POINT	AN15VOLT	; ACE A/B -15V REG VOLTAGE in volts
COEFF	AN15VOLT	, -.3938E+2,.1932E00
POINT	AP15VOLT	; ACE A/B +15V REG VOLTAGE in volts
COEFF	AP15VOLT	, 0,.12
POINT	AP28VOLT	; ACE A/B +28V REG VOLTAGE in volts
COEFF	AP28VOLT	, 0,.22
POINT	AP5VOLT	; ACE A/B +5V REG VOLTAGE in volts
COEFF	AP5VOLT	, 0,.04
POINT	APSUTMP	; PSU TEMP in deg. centigrade
COEFF	APSUTMP	, 42.97,1.056,-.04026,.4455E-3,-.2115E-5,.3616E-8
POINT	ARIU2TMP	; RIU 02 TEMP in deg. centigrade
COEFF	ARIU2TMP	, 0.1060E+03,-0.1315E+01,0.9660E-02,-0.4130E-04,0.6412E-07
POINT	AST1HORZ	; FHST 1 HORIZ STAR POS in degrees
COEFF	AST1HORZ	, 0,1.86252E-9
POINT	AST1MAG	; FHST 1 STAR INTENSITY in visual magnitude
COEFF	AST1MAG	, .5771E+1,-.8422E-1,.1110E-2,-.8754E-5,.3544E-7,-.5683E-10
POINT	AST1TEMP	; FHST 1 TEMP in deg. centigrade
COEFF	AST1TEMP	, -27.84,0.44688
POINT	AST1VERT	; FHST 1 VERTICAL STAR POS in degrees
COEFF	AST1VERT	, 0,1.86252E-9
POINT	AST2HORZ	; FHST 2 HORIZ STAR POS in degrees
COEFF	AST2HORZ	, 0,1.86252E-9
POINT	AST2MAG	; FHST 2 STAR INTENSITY in visual magnitude
COEFF	AST2MAG	, .5645E+1,-.8338E-1,.1153E-2,-.9278E-5,.3763E-7,-.5962E-10
POINT	AST2TEMP	; FHST 2 TEMP in deg. centigrade
COEFF	AST2TEMP	, -27.75,0.51576
POINT	AST2VERT	; FHST 2 VERTICAL STAR POS in degrees
COEFF	AST2VERT	, 0,1.86252E-9
POINT	ASTACHA	; SKEW SRW TACH A in RPM
COEFF	ASTACHA	, -2766,21.61
POINT	ASTACHB	; SKEW SRW TACH B in RPM
COEFF	ASTACHB	, -2766,21.61
POINT	ASTOBTMP	; OPTICAL BENCH TEMP in deg. centigrade
COEFF	ASTOBTMP	, 0.8441E+02,-0.1256E+01,0.7699E-02,-0.2040E-04
POINT	ASIMDRVA	; SKEW SRW DRIVE CONTROL in volts
COEFF	ASIMDRVA	, 0.0,0.0,1.6E-4
POINT	ASIMDRVB	; SKEW SRW MOTOR VOLTS in volts
COEFF	ASIMDRVB	, 0.0,0.1

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SVS-10266/3A
Appendix A
June 1982

POINT	ASWHLTMP	; SKEW SRW TEMP in deg. centigrade
COEFF	ASWHLTMP	, 42.97,1.056,-.04026,.4455E-3,-.2115E-5,.3616E-8
POINT	ATAM1X	; TAM 1 ROLL ERROR SIGNAL in Gauss
COEFF	ATAM1X	, -1024,8
POINT	ATAM1Y	; TAM 1 PITCH ERROR SIGNAL in Gauss
COEFF	ATAM1Y	, -1024,8
POINT	ATAM1Z	; TAM 1 YAW ERROR SIGNAL in Gauss
COEFF	ATAM1Z	, -1024,8
POINT	ATAM2X	; TAM 2 ROLL ERROR SIGNAL in Gauss
COEFF	ATAM2X	, -1024,8
POINT	ATAM2Y	; TAM 2 PITCH ERROR SIGNAL in Gauss
COEFF	ATAM2Y	, -1024,8
POINT	ATAM2Z	; TAM 2 YAW ERROR SIGNAL in Gauss
COEFF	ATAM2Z	, -1024,8
POINT	ATQDRELT	; TORQ DRIVE ELECTRONICS TEMP in deg. centigrade
COEFF	ATQDRELT	, 42.97,1.056,-.04026,.4455E-3,-.2115E-5,.3616E-8
POINT	AWHDRELT	; SRW DRIVE ELECTRONICS TEMP in deg. centigrade
COEFF	AWHDRELT	, 42.97,1.056,-.04026,.4455E-3,-.2115E-5,.3616E-8
POINT	AXMAGDRA	; ROLL MAG TORQ DRIVE A in m Amps
COEFF	AXMAGDRA	, -59.5348,.4651
POINT	AXMAGDRB	; ROLL MAG TORQ DRIVE B in m Amps
COEFF	AXMAGDRB	, -59.5348,.4651
POINT	AXRATE1	; IRU ROLL RATE 1 in Deg/Sec
COEFF	AXRATE1	, -1.01789,.007952
POINT	AXRATE2	; IRU ROLL RATE 2 in Deg/Sec
COEFF	AXRATE2	, -1.01789,.007952
POINT	AXTACHA	; ROLL SRW TACH A in RPM
COEFF	AXTACHA	, -2766,21.61
POINT	AXTACHB	; ROLL SRW TACH B in RPM
COEFF	AXTACHB	, -2766,21.61
POINT	AXWHDRA	; ROLL SRW DRIVE CONTROL in volts
COEFF	AXWHDRA	, 0.0,0.0,1.6E-4
POINT	AXWHDVB	; ROLL SRW MOTOR VOLTS in volts
COEFF	AXWHDVB	, 0.0,0.1
POINT	AXWHLTMP	; ROLL SRW TEMP in deg. centigrade
COEFF	AXWHLTMP	, 42.97,1.056,-.04026,.4455E-3,-.2115E-5,.3616E-8
POINT	AYMAGDRA	; PITCH MAG TORQ DRIVE A in m /mps
COEFF	AYMAGDRA	, -59.5348,.4651
POINT	AYMAGDRB	; PITCH MAG TORQ DRIVE B in in Amps
COEFF	AYMAGDRB	, -59.5348,.4651
POINT	AYRATE1	; IRU PITCH RATE 1 in Deg/Sec
COEFF	AYRATE1	, -1.01789,.007952
POINT	AYRATE2	; IRU PITCH RATE 2 in Deg/Sec
COEFF	AYRATE2	, -1.01789,.007952
POINT	AYTACHA	; PITCH SRW TACH A in RPM
COEFF	AYTACHA	, -2766,21.61
POINT	AYTACHB	; PITCH SRW TACH B in RPM
COEFF	AYTACHB	, -2766,21.61
POINT	AYWHDRA	; PITCH SRW DRIVE CONTROL in volts
COEFF	AYWHDRA	, 0.0,0.0,1.6E-4
POINT	AYWHDVB	; PITCH SRW MOTOR VOLTS in volts
COEFF	AYWHDVB	, 0.0,0.1
POINT	AYWHLTMP	; PITCH SRW TEMP in deg. centigrade
COEFF	AYWHLTMP	, 42.97,1.056,-.04026,.4455E-3,-.2115E-5,.3616E-8
POINT	AZMAGDRA	; YAW MAG TORQ DRIVE A in m Amps
COEFF	AZMAGDRA	, -144.0,1.134

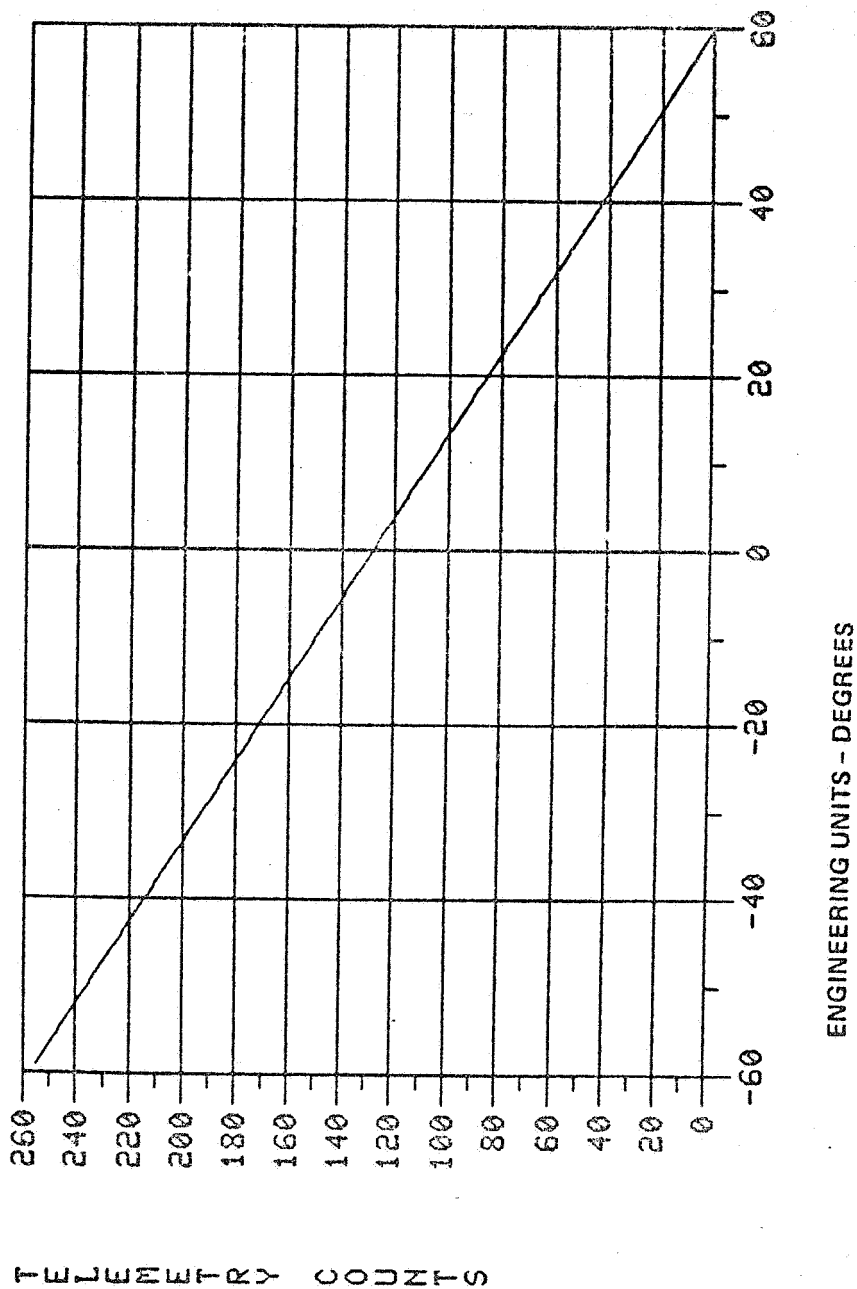
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SVS-10266/3A
Appendix A
June 1982

POINT	AZMAGDRB	; YAW MAG TORQ DRIVE B in m Amps
COEFF	AZMAGDRB	, -144.0,1.134
POINT	AZRATE1	; IRU YAW RATE 1 in Deg/Sec
COEFF	AZRATE1	, -1.01789,.007952
POINT	AZRATE2	; IRU YAW RATE 2 in Deg/Sec
COEFF	AZRATE2	, -1.01789,.007952
POINT	AZTACHA	; YAW SRW TACH A in RPM
COEFF	AZTACHA	, -2766,21.61
POINT	AZTACHB	; YAW SRW TACH B in RPM
COEFF	AZTACHB	, -2766,21.61
POINT	AZWHDRA	; YAW SRW DRIVE CONTROL in volts
COEFF	AZWHDRA	, 0.0,0.0,1.6E-4
POINT	AZWHDRA	; YAW SRW MOTOR VOLTS in volts
COEFF	AZWHDRA	, 0.0,0.1
POINT	AZWHLTMP	; YAW SRW TEMP in deg. centigrade
COEFF	AZWHLTMP	, 42.97,1.056,-.04026,.4455E-3,-.2115E-5,.3616E-8

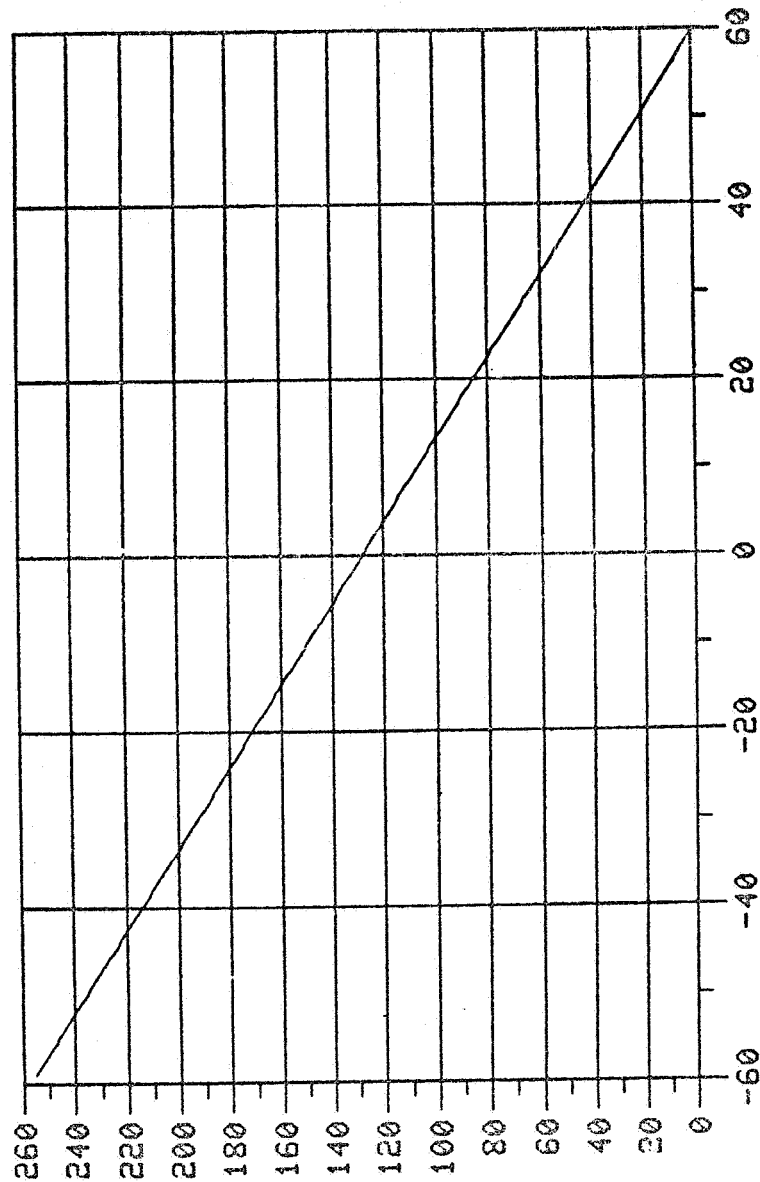
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COUNTS VS ENGINEERING UNITS FOR AAIRUXPN



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COUNTS VS ENGINEERING UNITS FOR AAIRUYPN

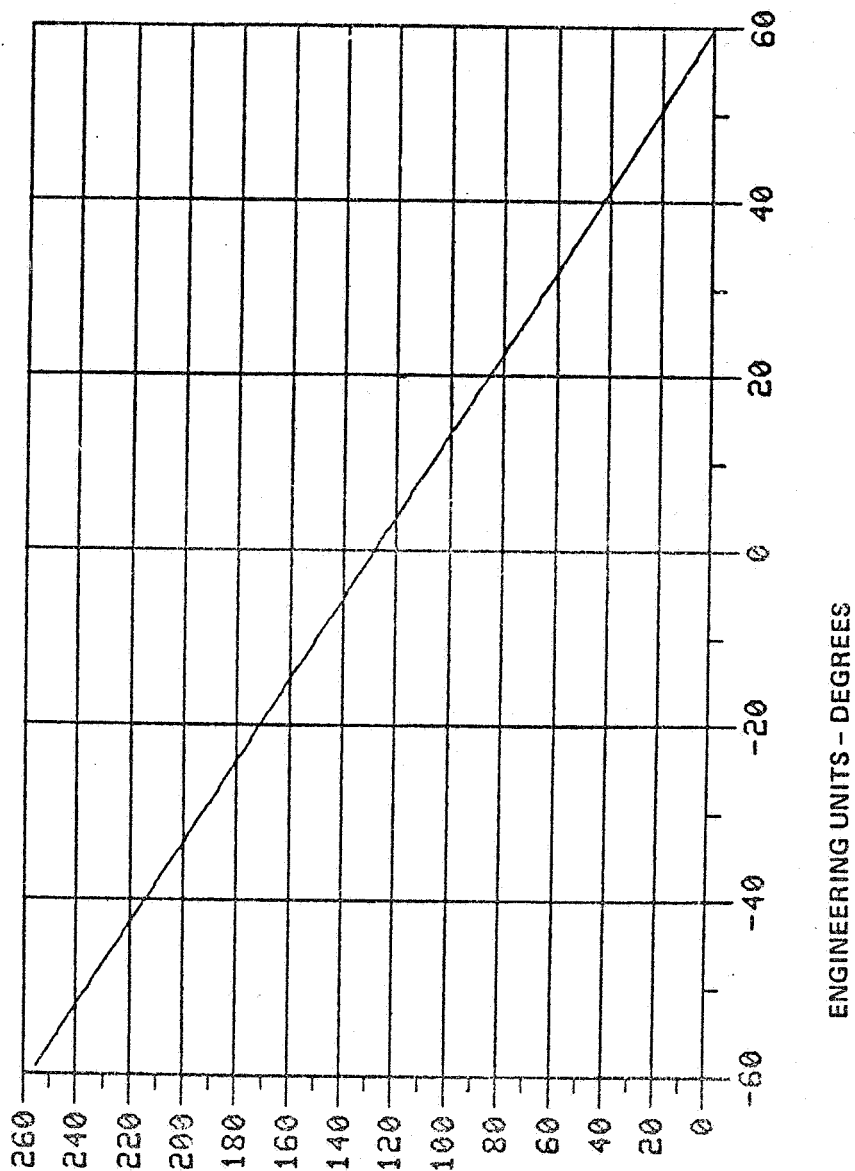


TELEMETRY COUNTS

ENGINEERING UNITS - DEGREES

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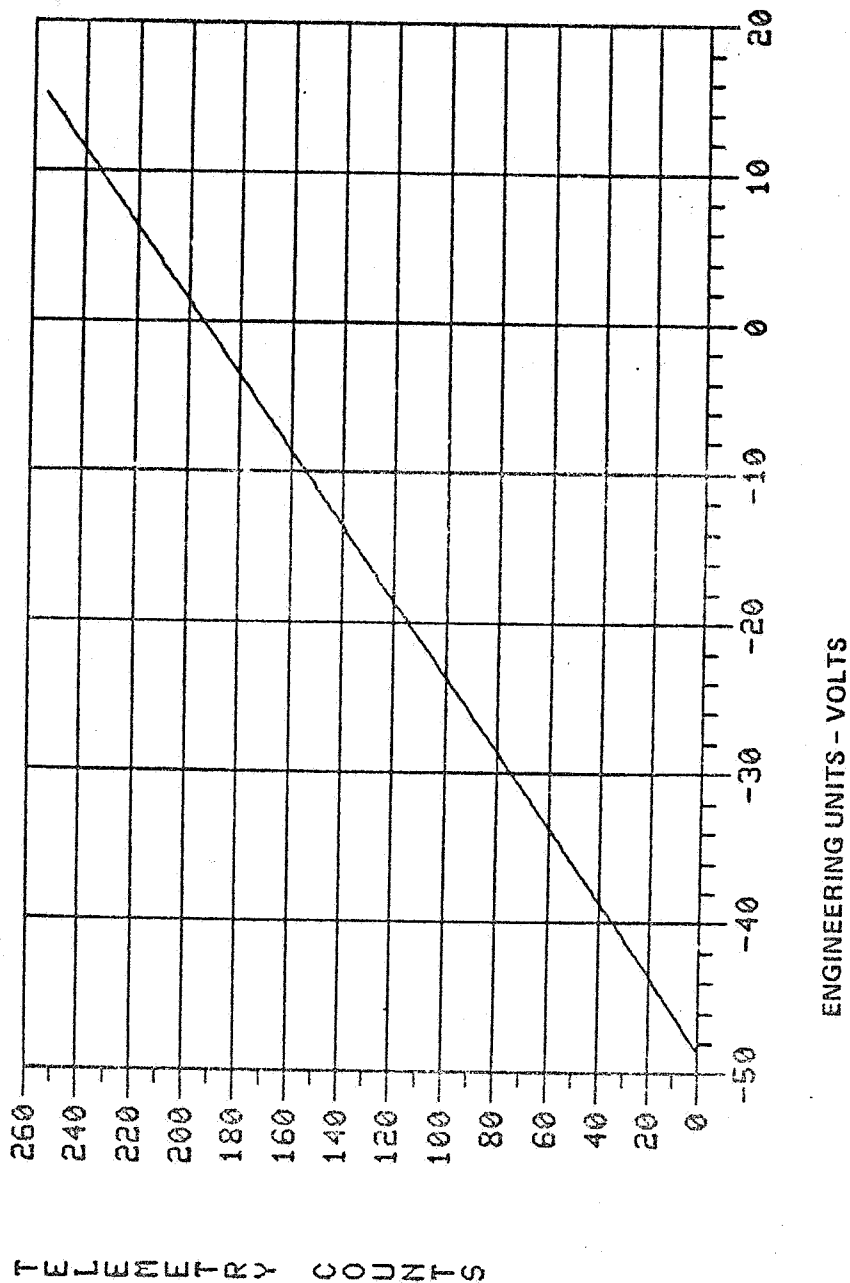
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TELEMETRY COUNTS

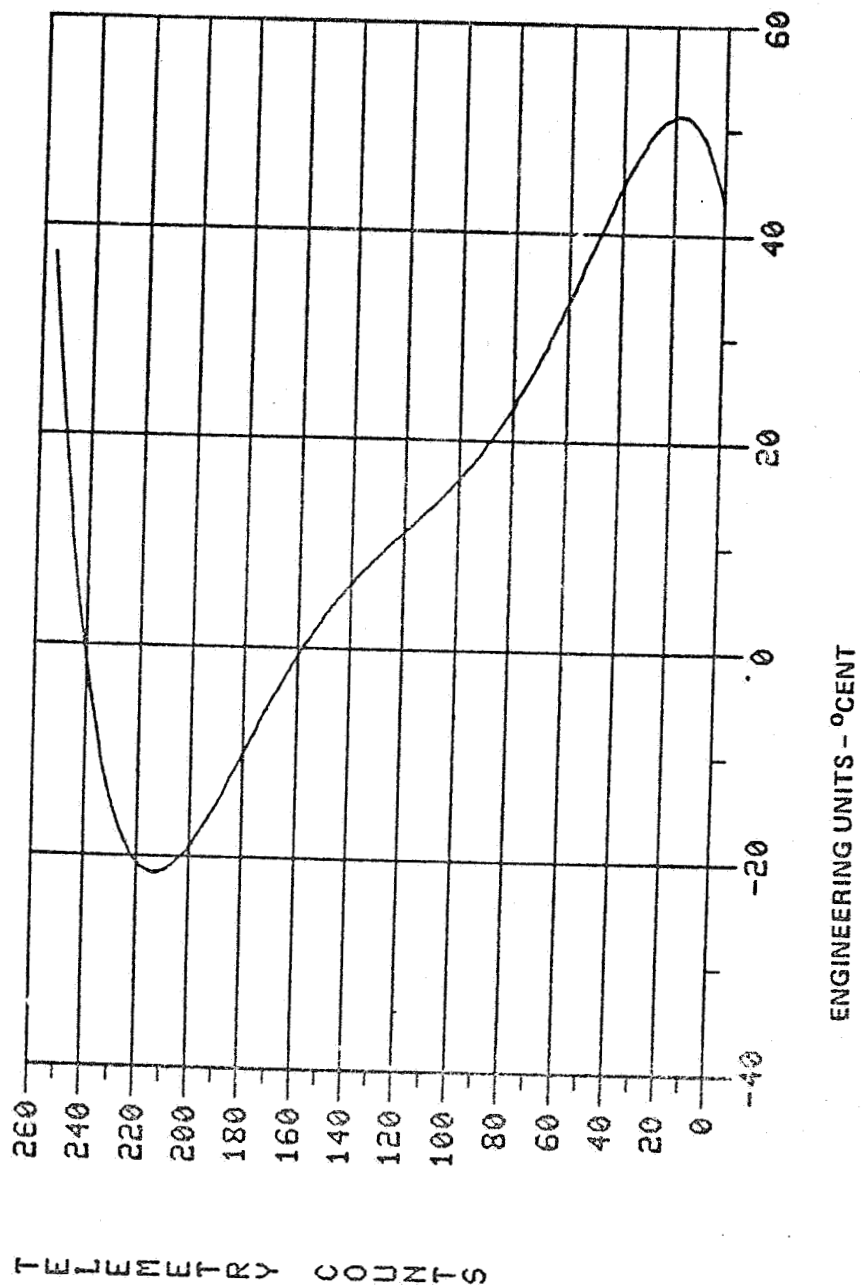
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COUNTS VS ENGINEERING UNITS FOR AAN18ULT



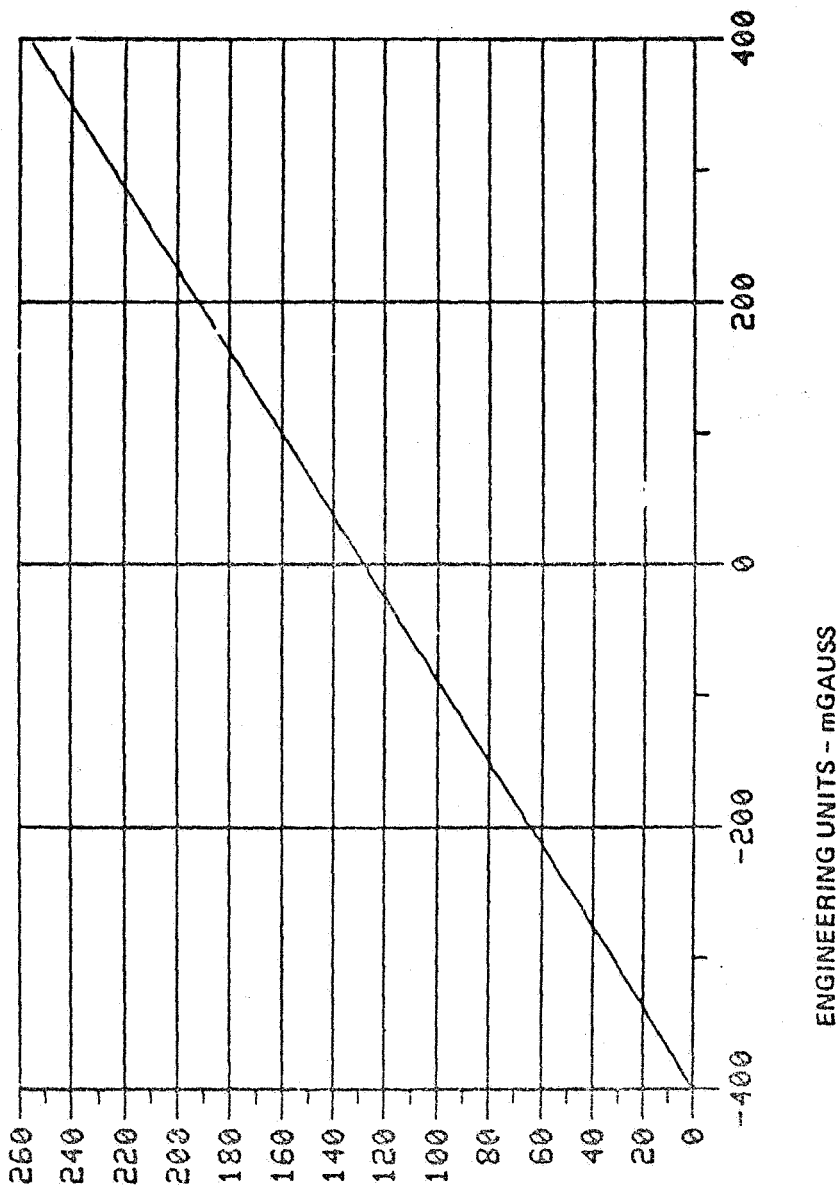
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COUNTS VS ENGINEERING UNITS FOR AAPURCDT



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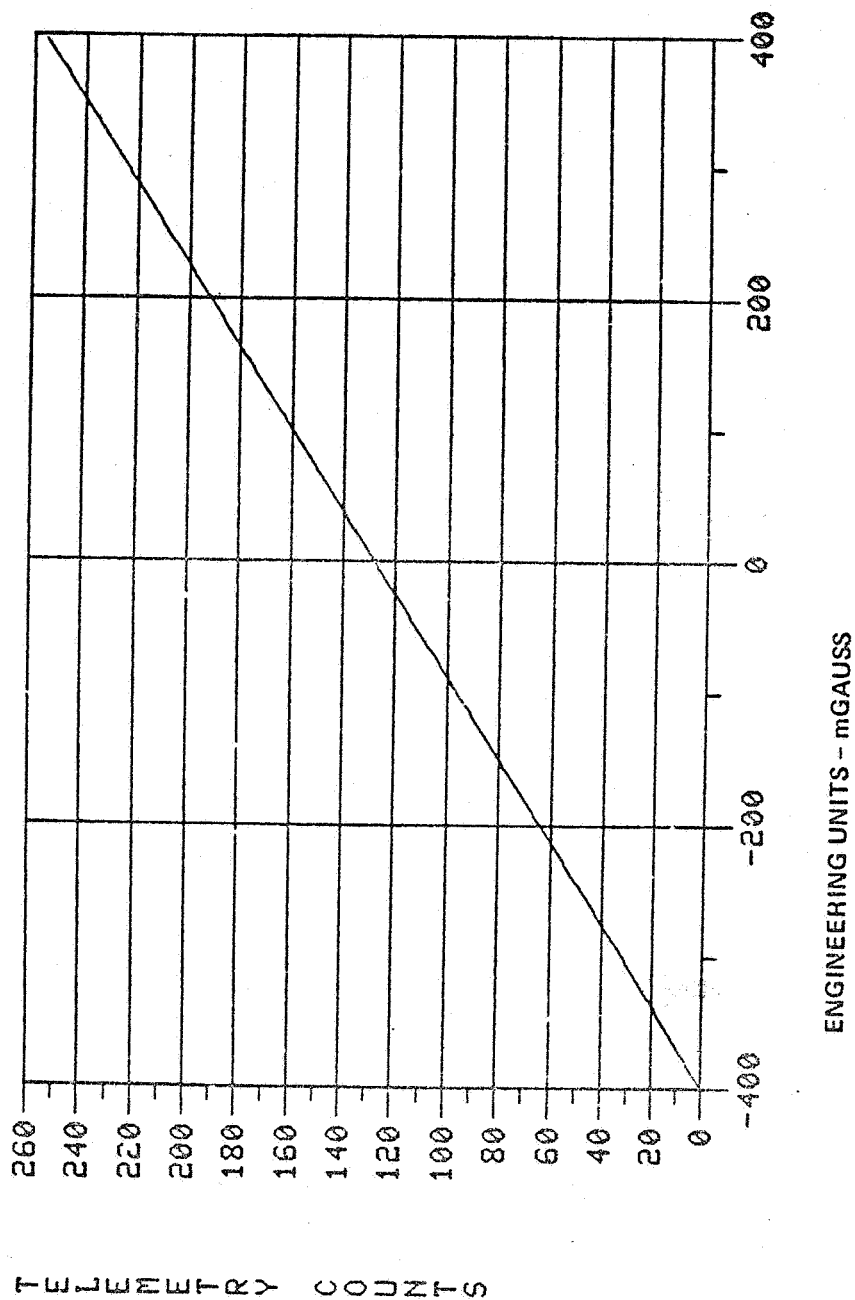
COUNTS VS ENGINEERING UNITS FOR AAXTAMCP



TELEMETRY COUNTS

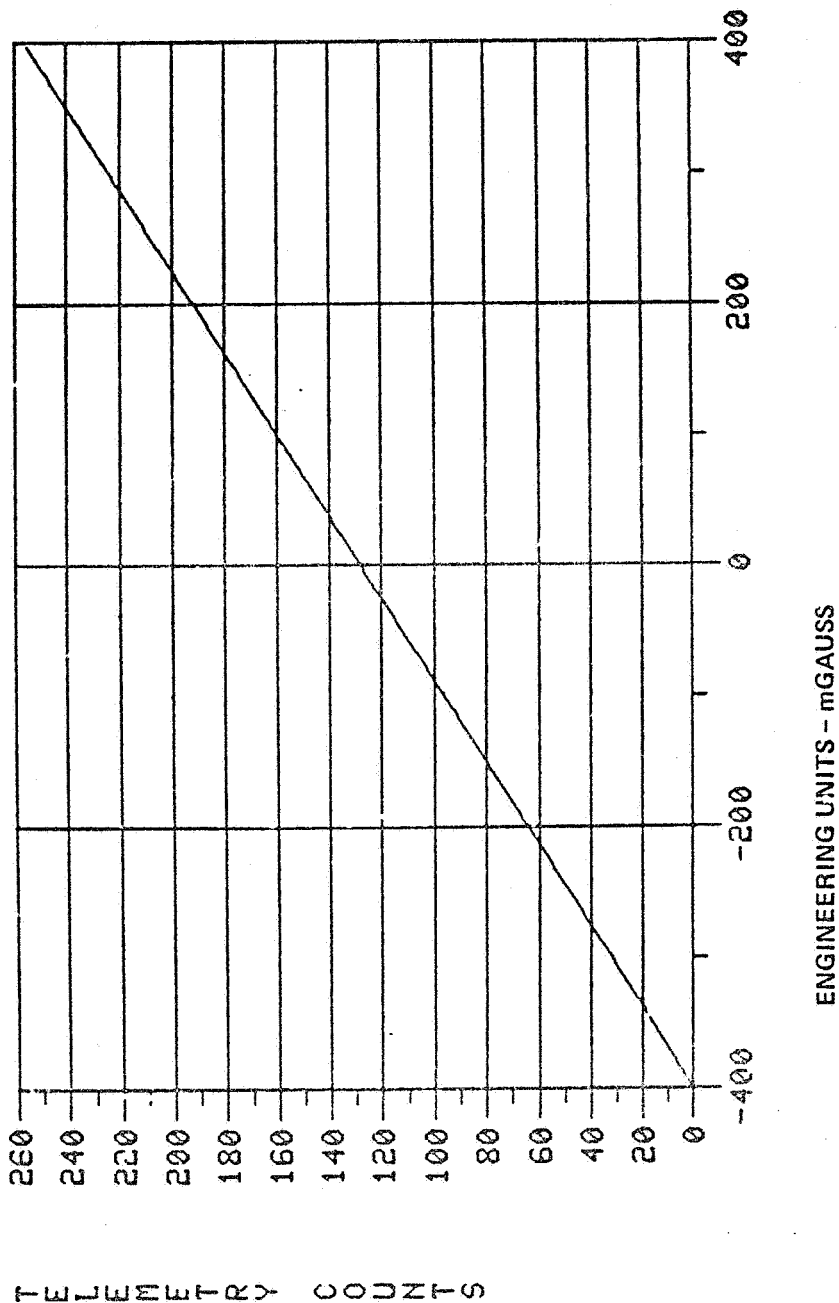
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COUNTS VS ENGINEERING UNITS FOR AAYTAMCP



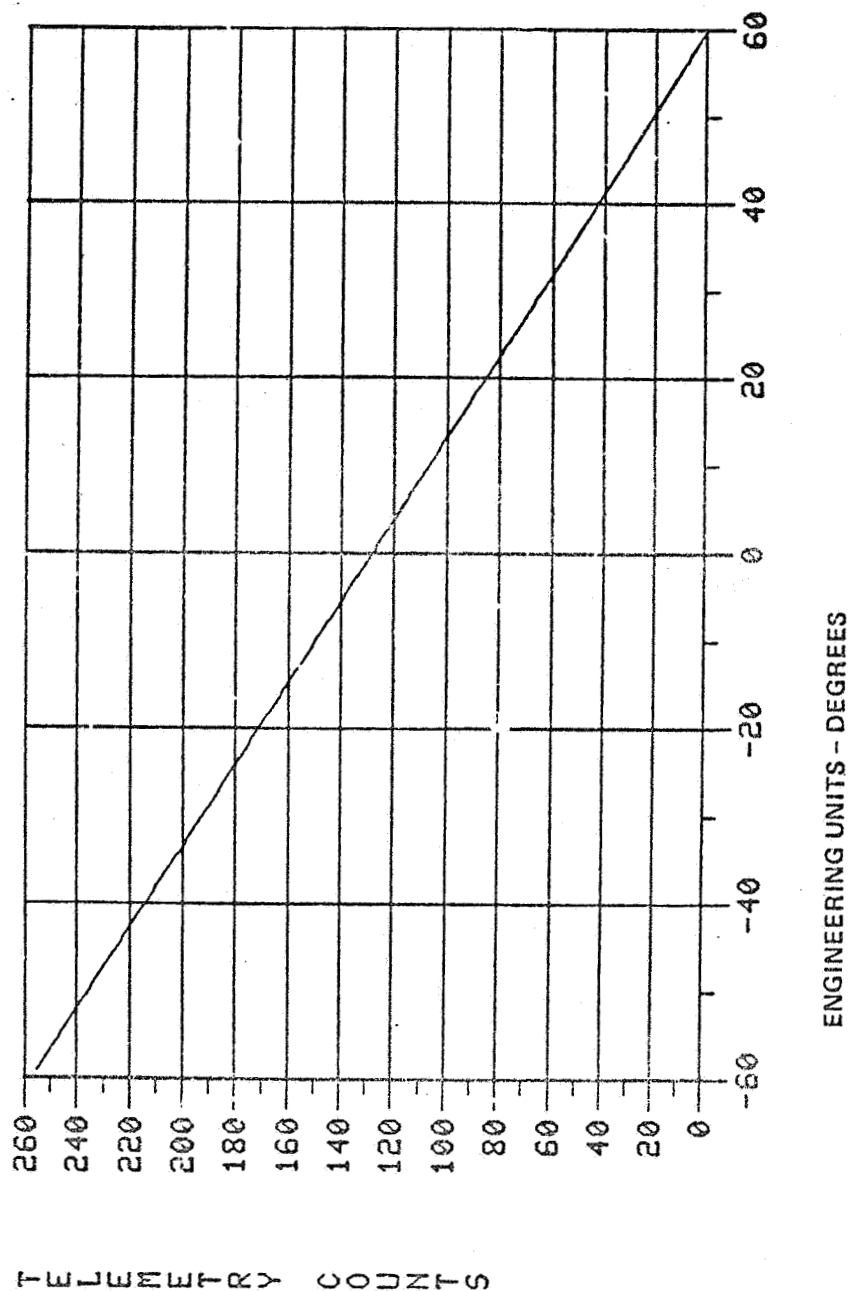
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COUNTS VS ENGINEERING UNITS FOR AAZTAMCP



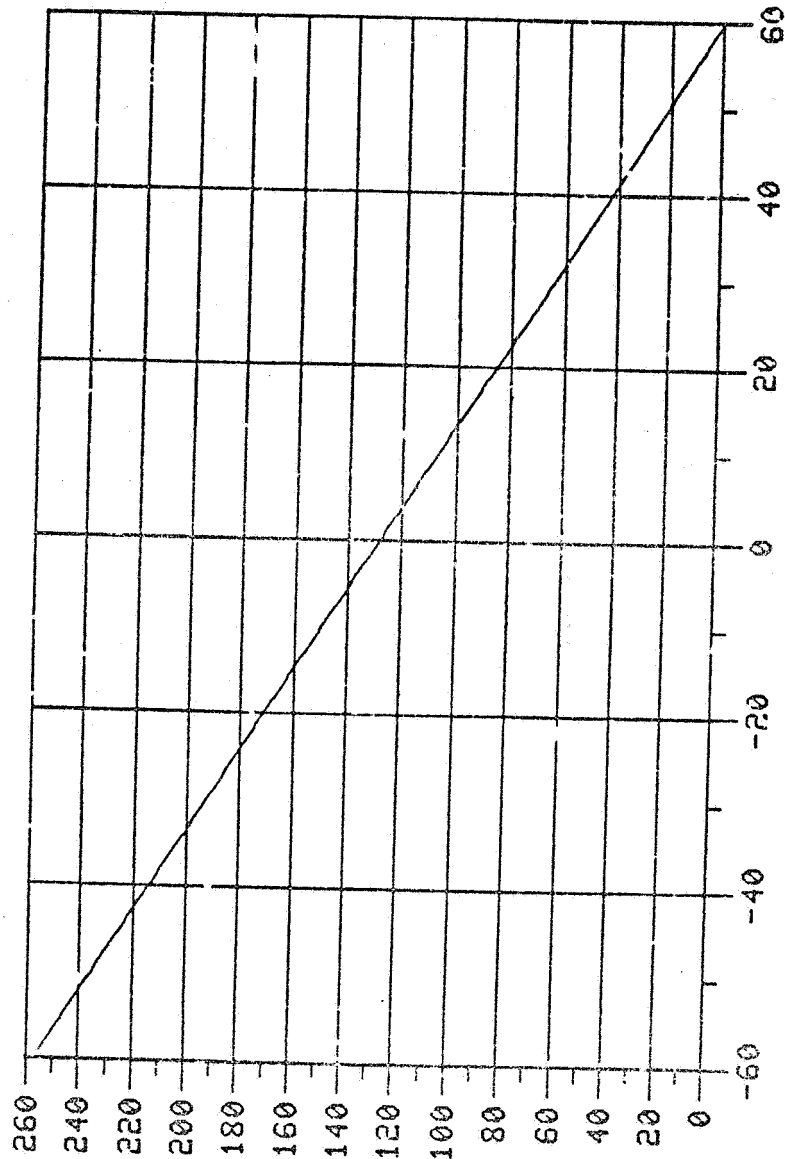
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COUNTS VS ENGINEERING UNITS FOR ABIRUXPN



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COUNTS VS ENGINEERING UNITS FOR ABIRUYPN

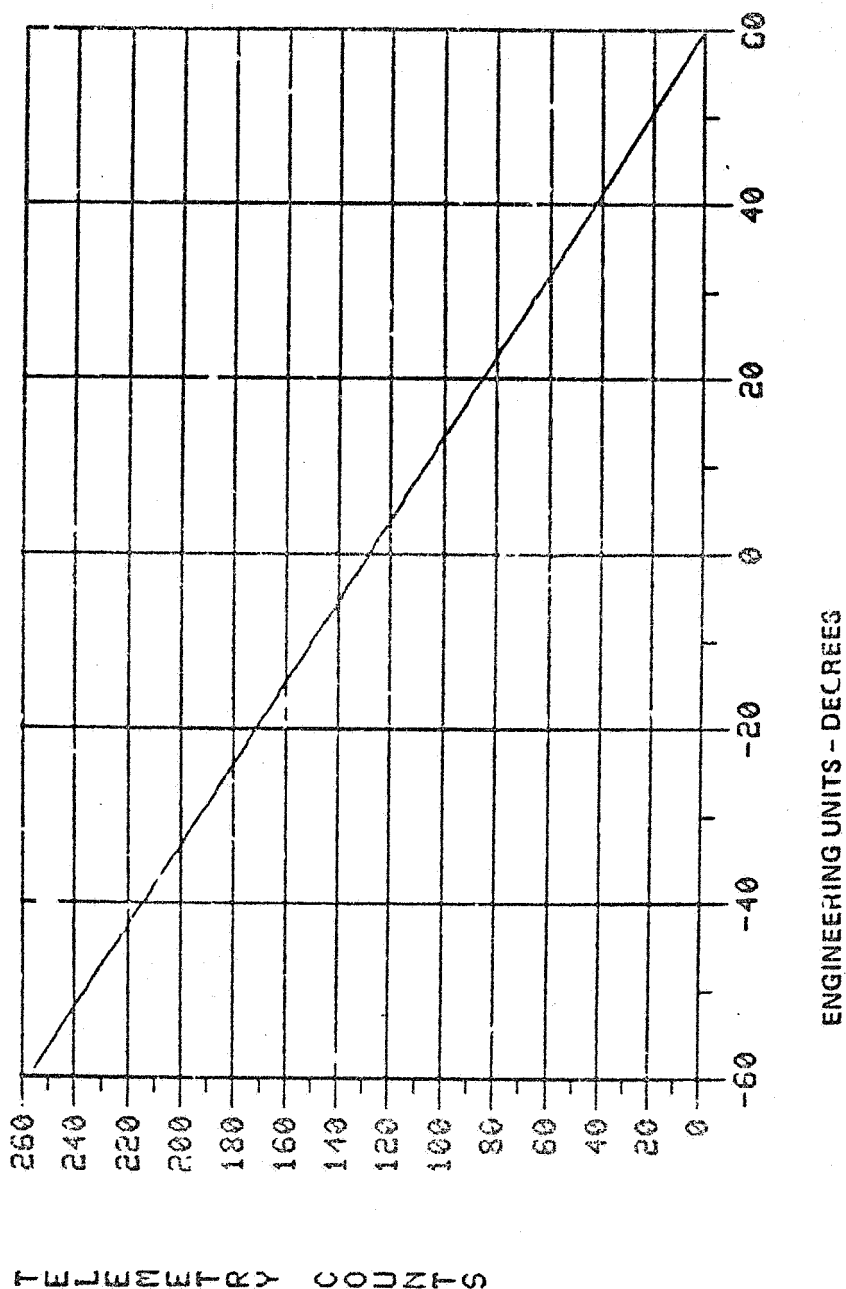


TELEMETRY COUNTS

ENGINEERING UNITS - DEGREES

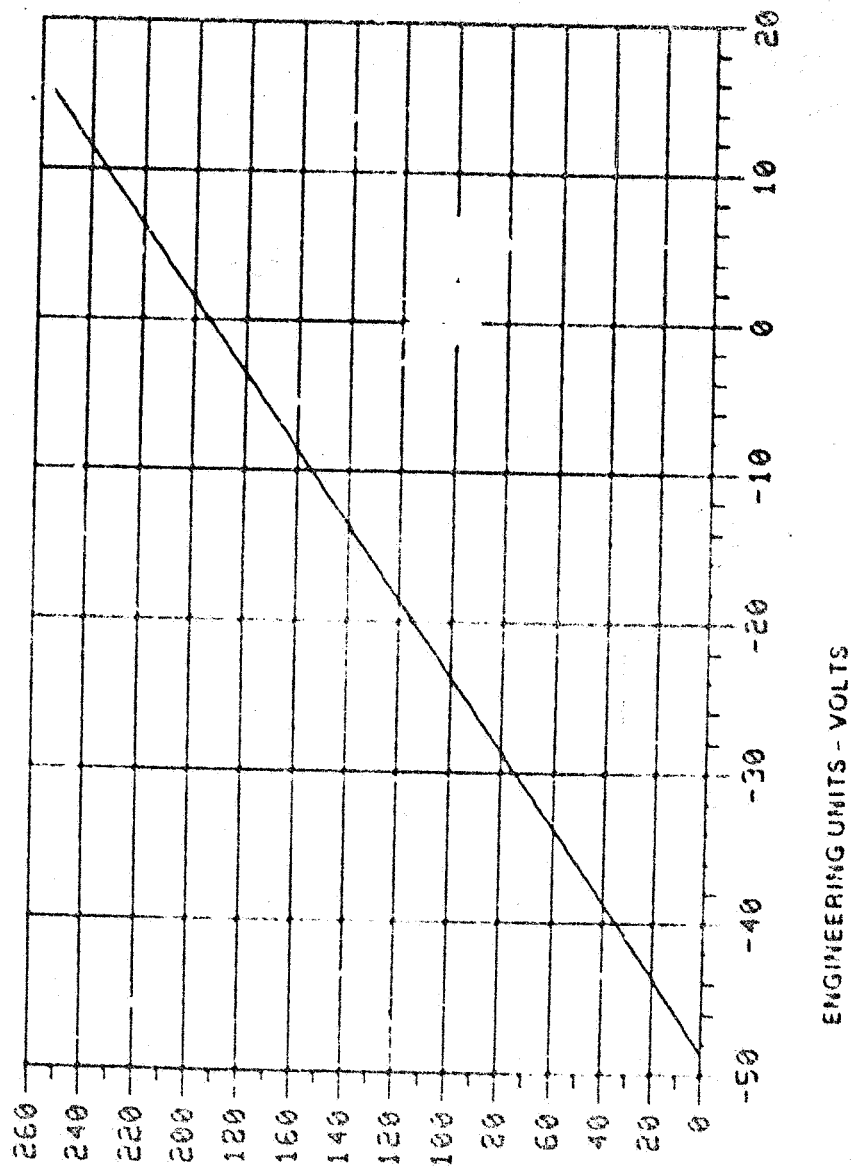
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COUNTS VS ENGINEERING UNITS FOR ABIRUZPN



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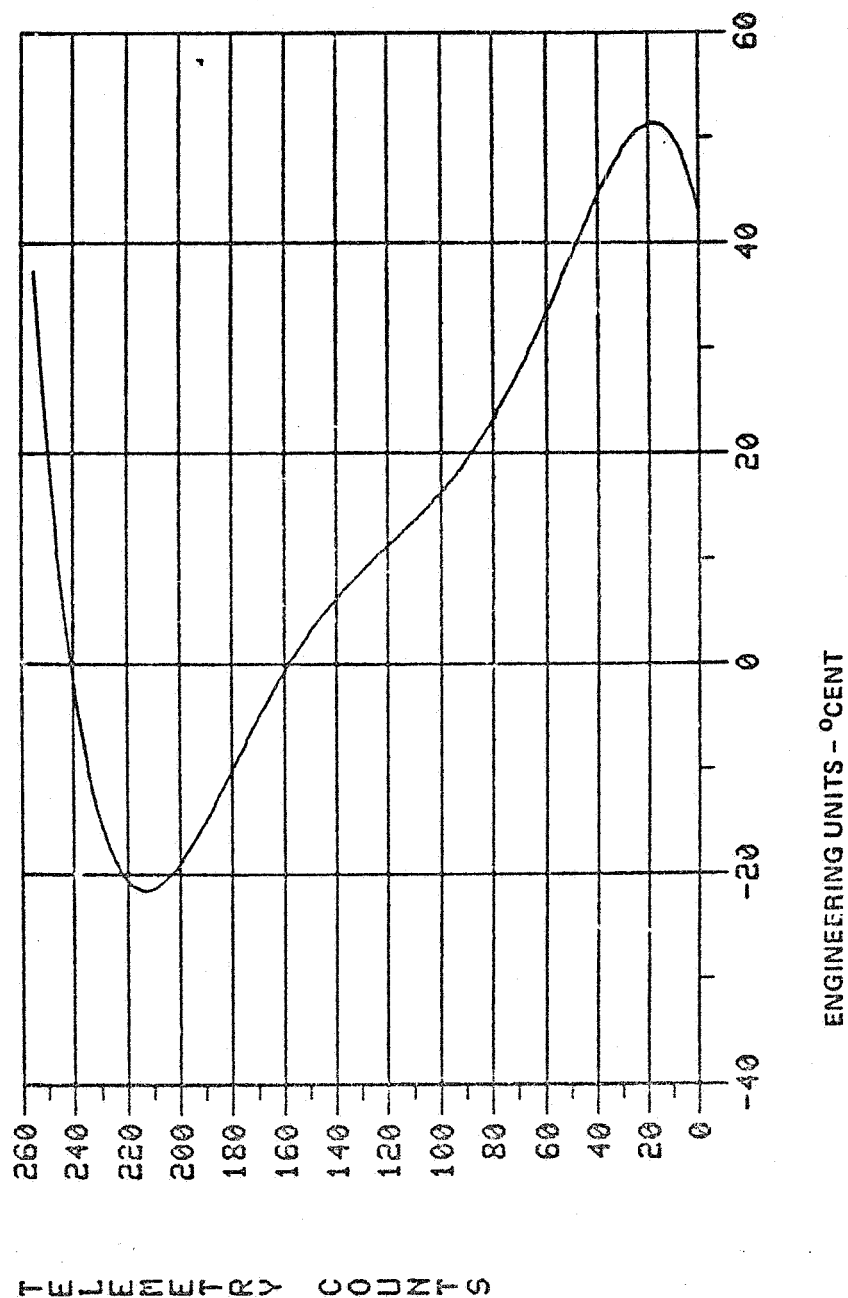
COUNTS VS ENGINEERING UNITS FOR ABN18ULT



FREQUENCY COUNTS

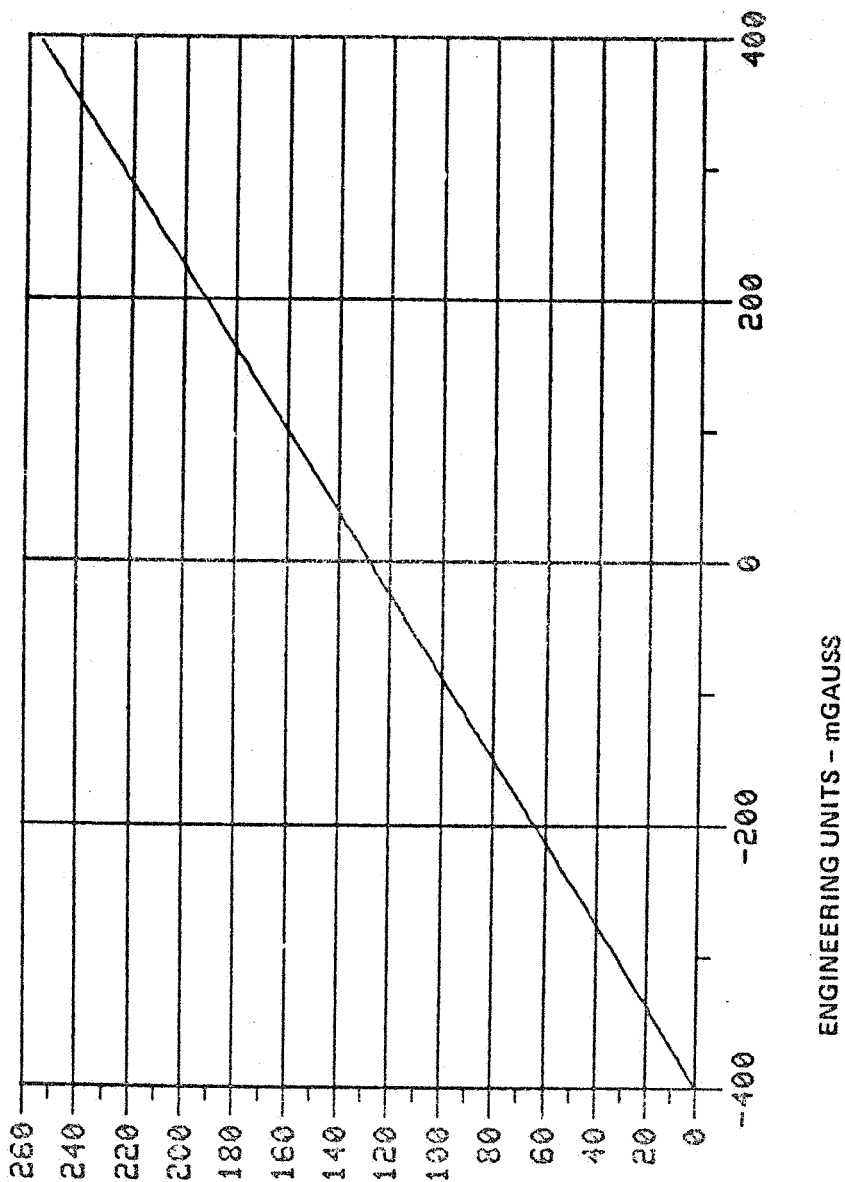
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COUNTS VS ENGINEERING UNITS FOR ABPJRCDT



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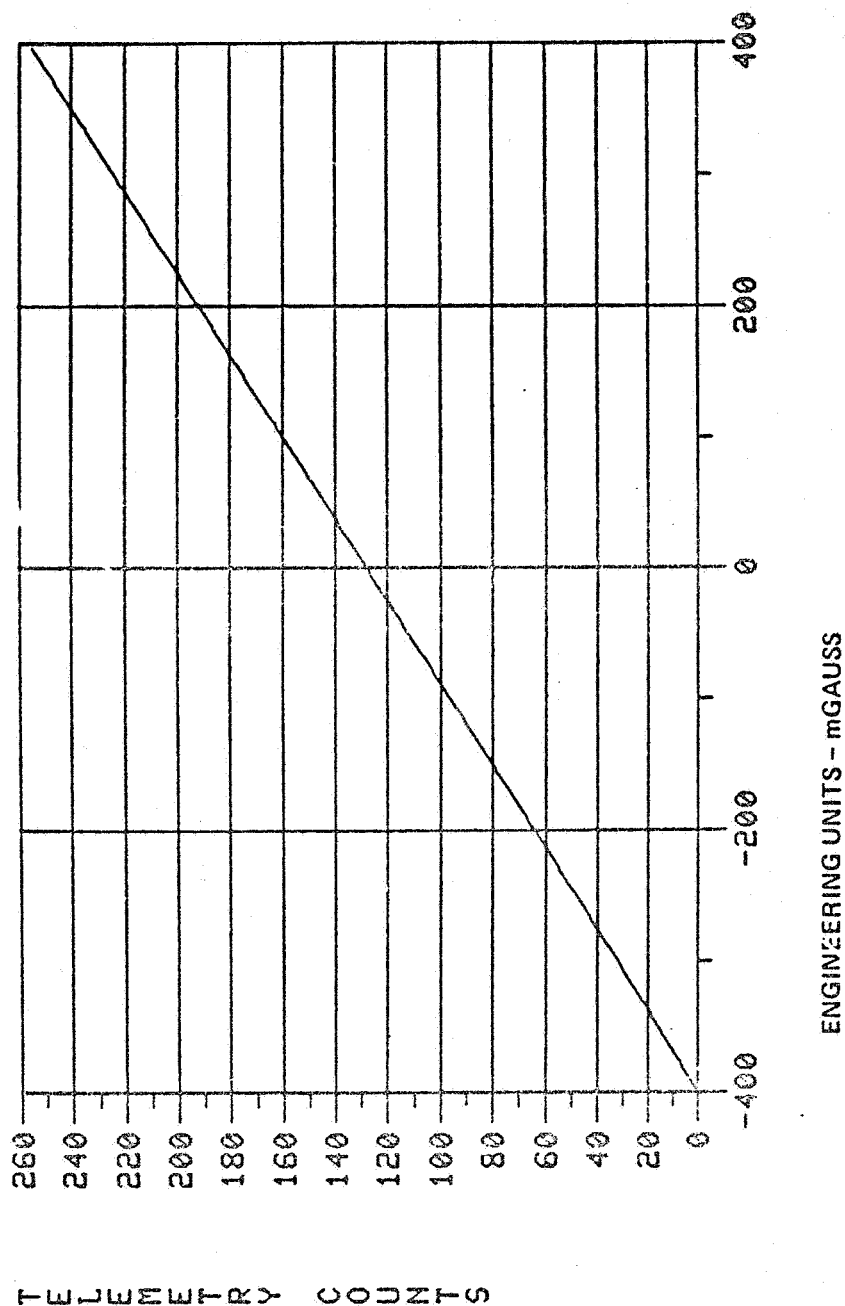
COUNTS US ENGINEERING UNITS FOR ABXTAMCP



TELEMETRY COUNTS

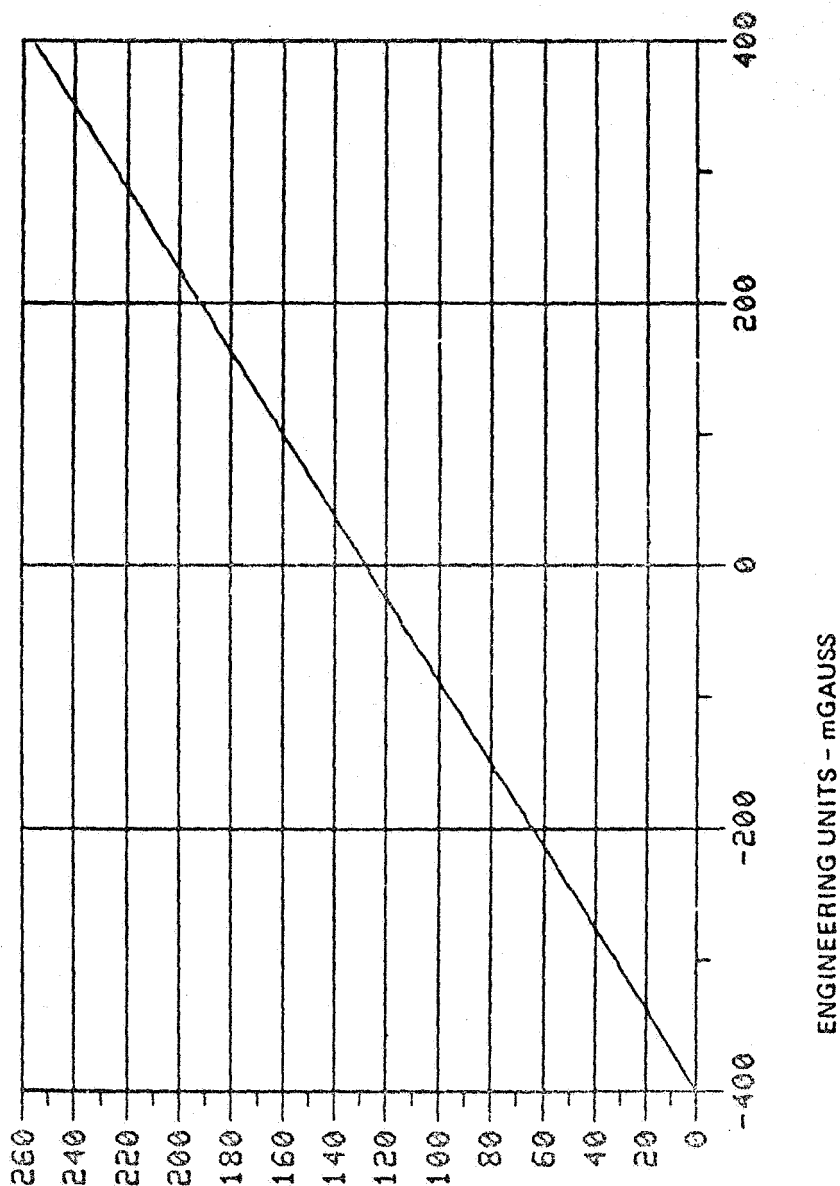
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COUNTS VS ENGINEERING UNITS FOR ABYTAMCP



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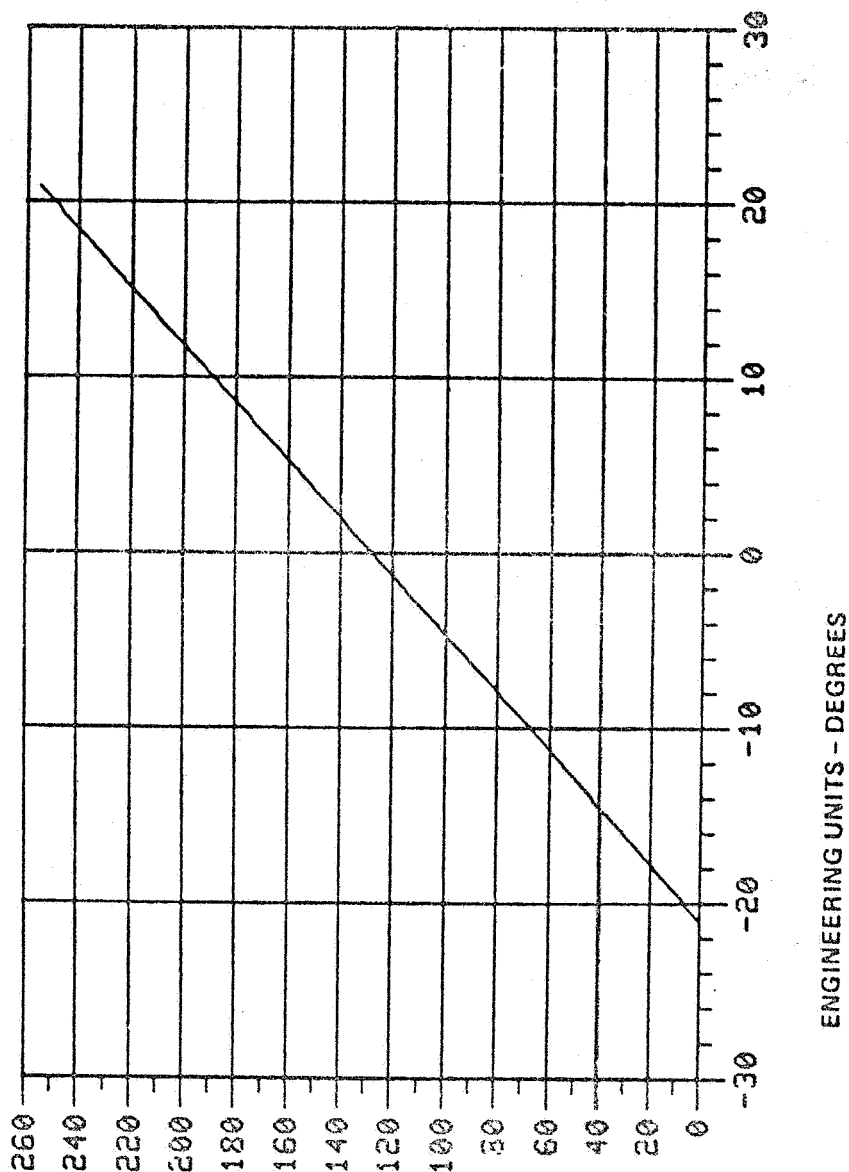
COUNTS VS ENGINEERING UNITS FOR AB2TAMCP



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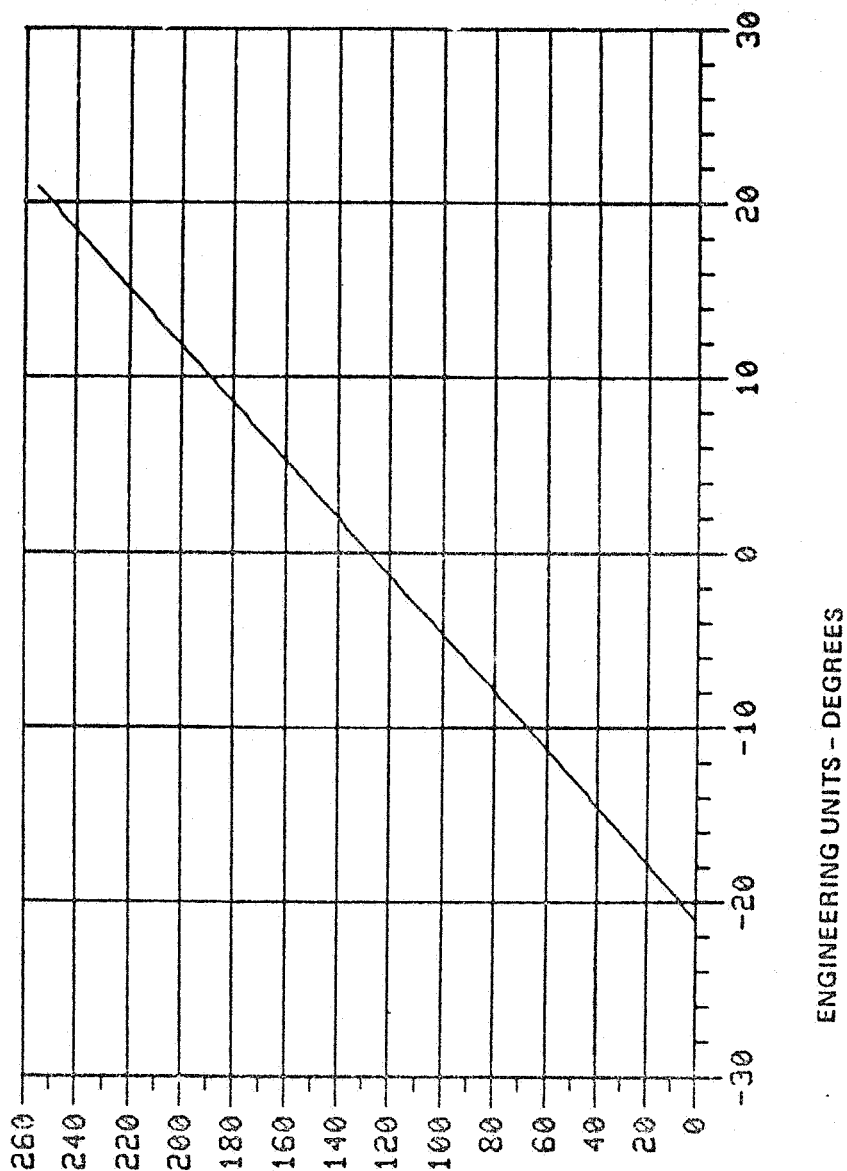
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COUNTS VS ENGINEERING UNITS FOR ACSS1Y



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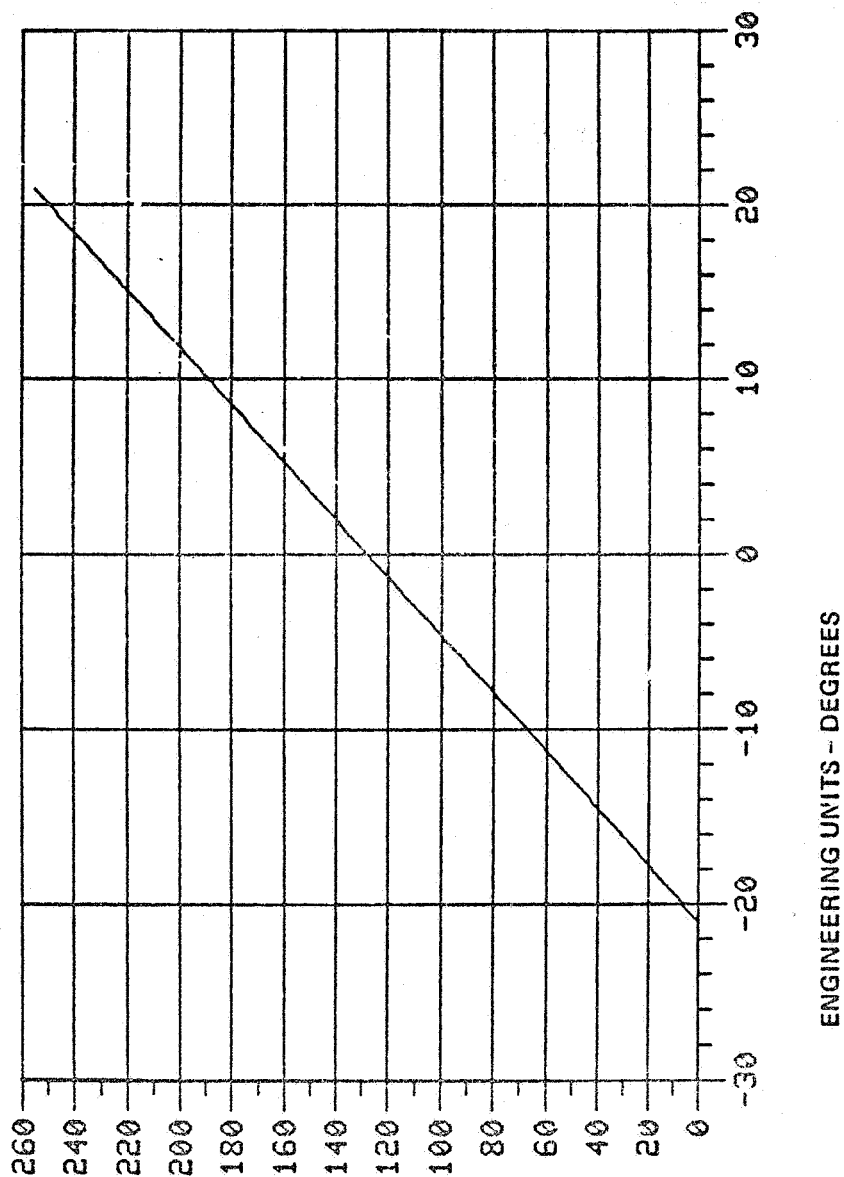
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TELEMETRY COUNTS

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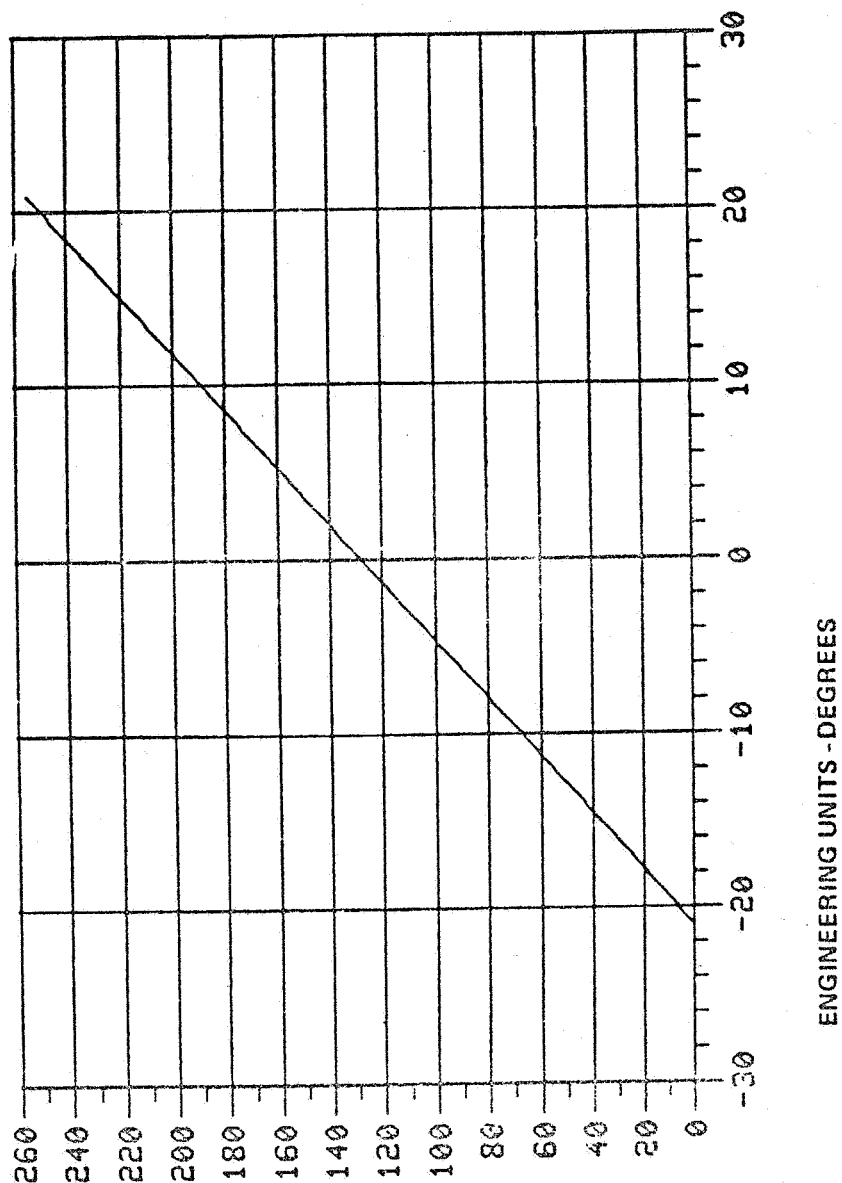
COUNTS VS ENGINEERING UNITS FOR ACS2Y



TELEMETRY COUNTS

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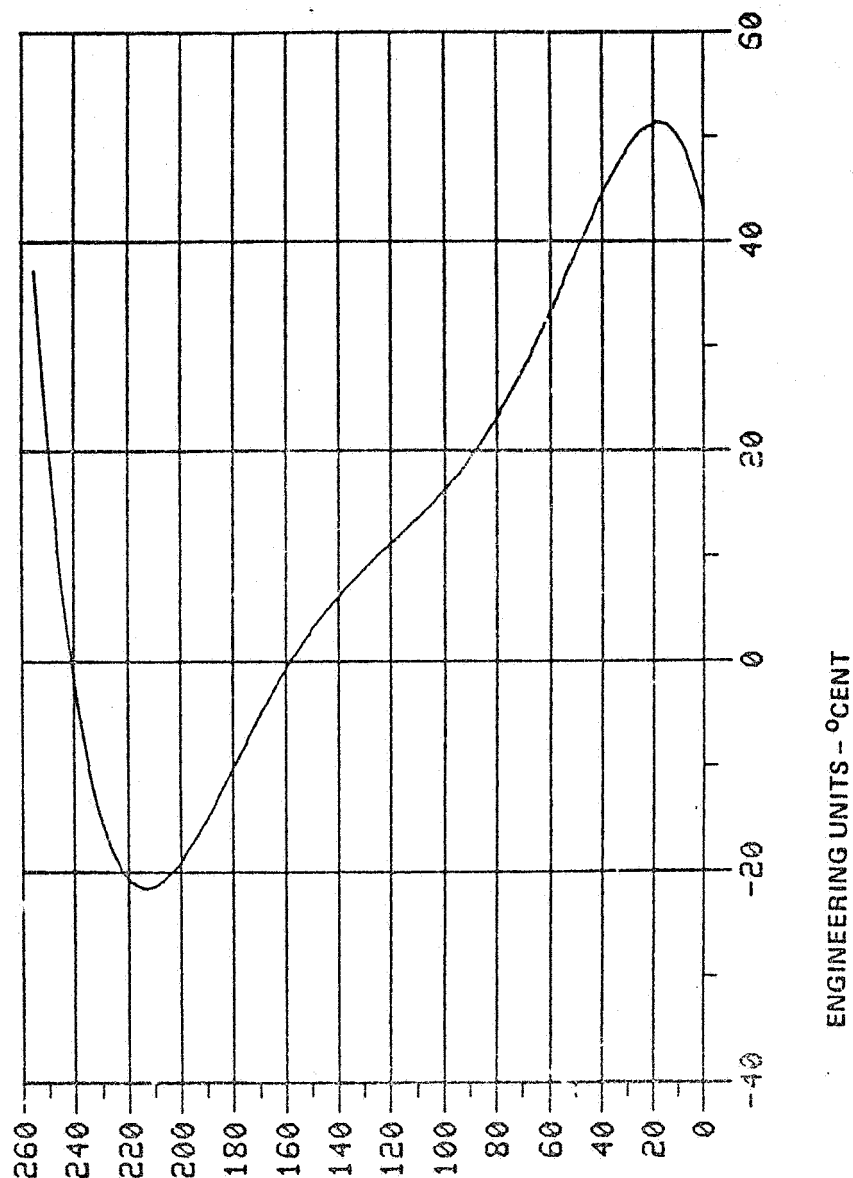
COUNTS VS ENGINEERING UNITS FOR ACS52Z



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR AFSSTMP

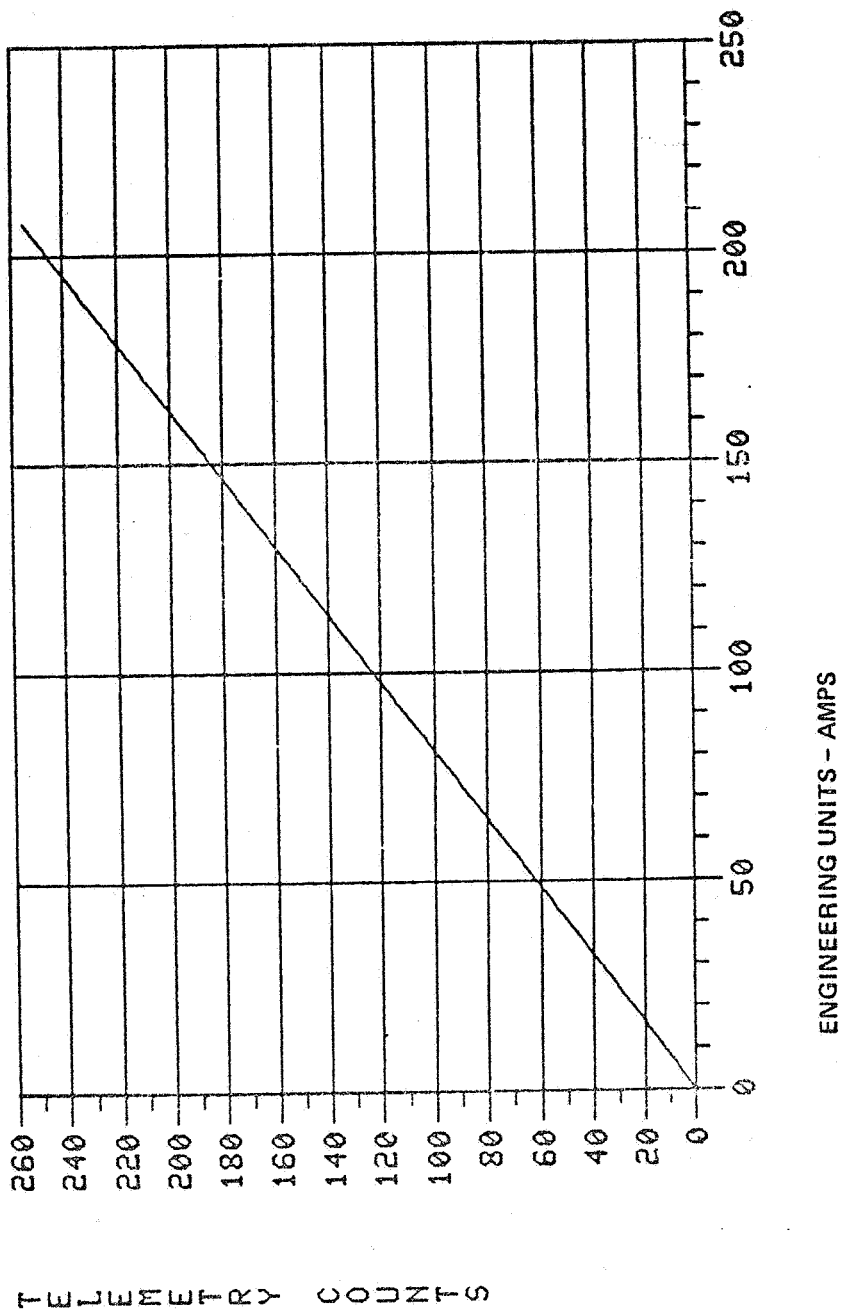


TELEMETRY COUNTS

ENGINEERING UNITS - °CENT

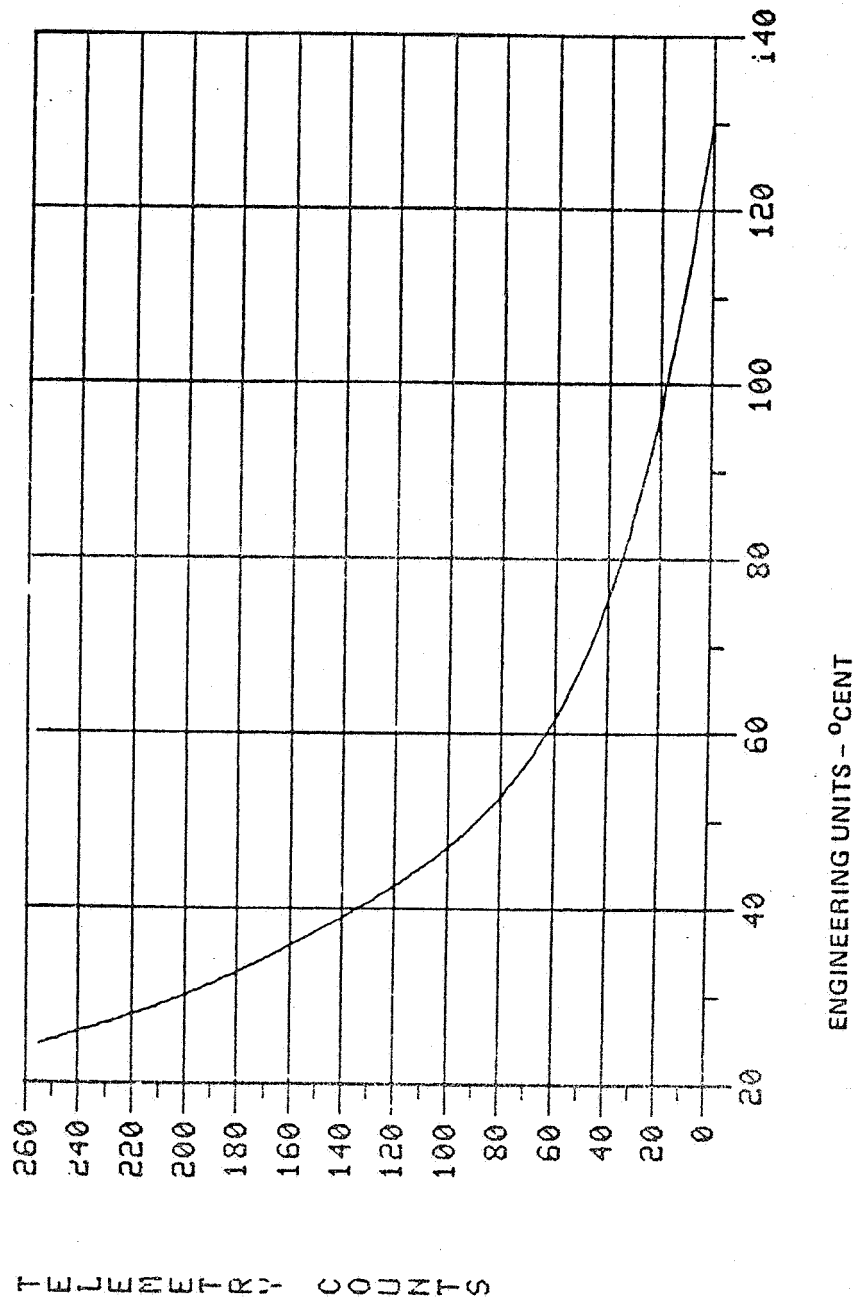
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COUNTS VS ENGINEERING UNITS FOR AIRUAMTI



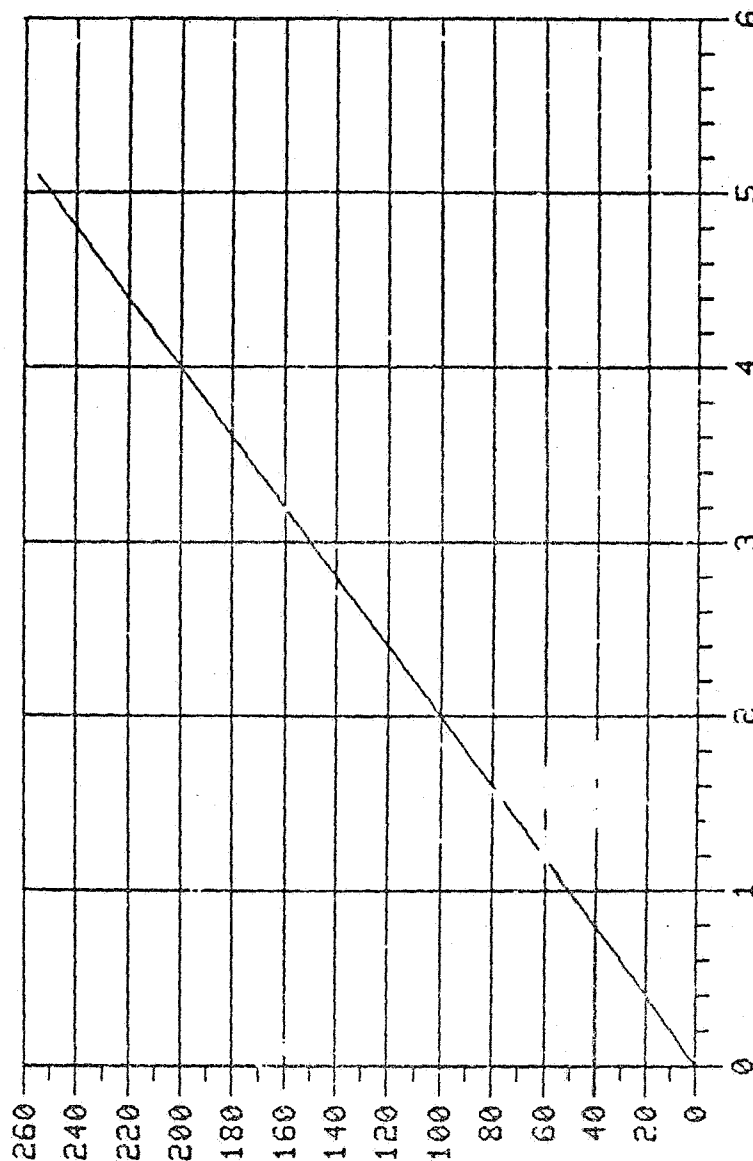
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COUNTS VS ENGINEERING UNITS FOR AIRUATMP



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COUNTS VS ENGINEERING UNITS FOR AIRVAULT

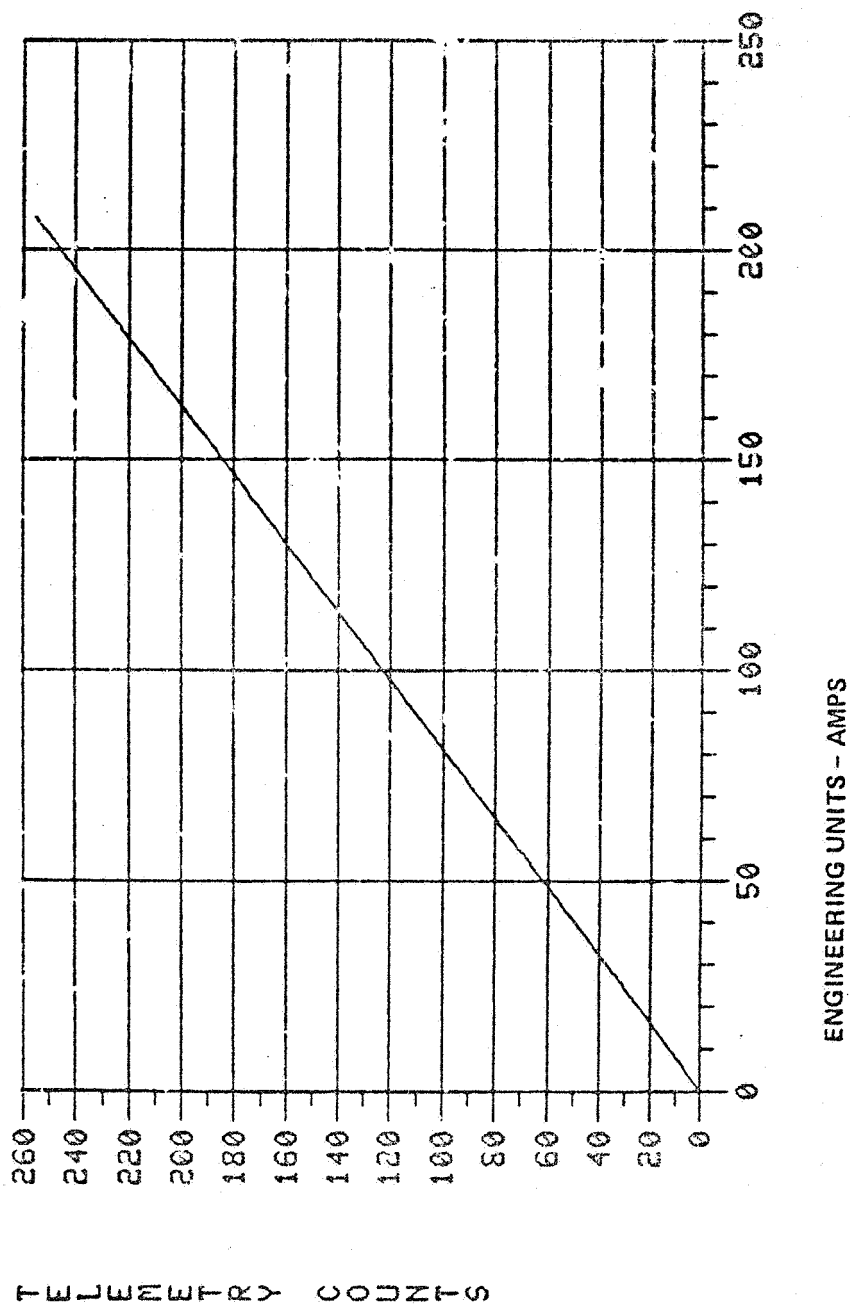


TELEMETRY COUNTS

ENGINEERING UNITS - VOLTS

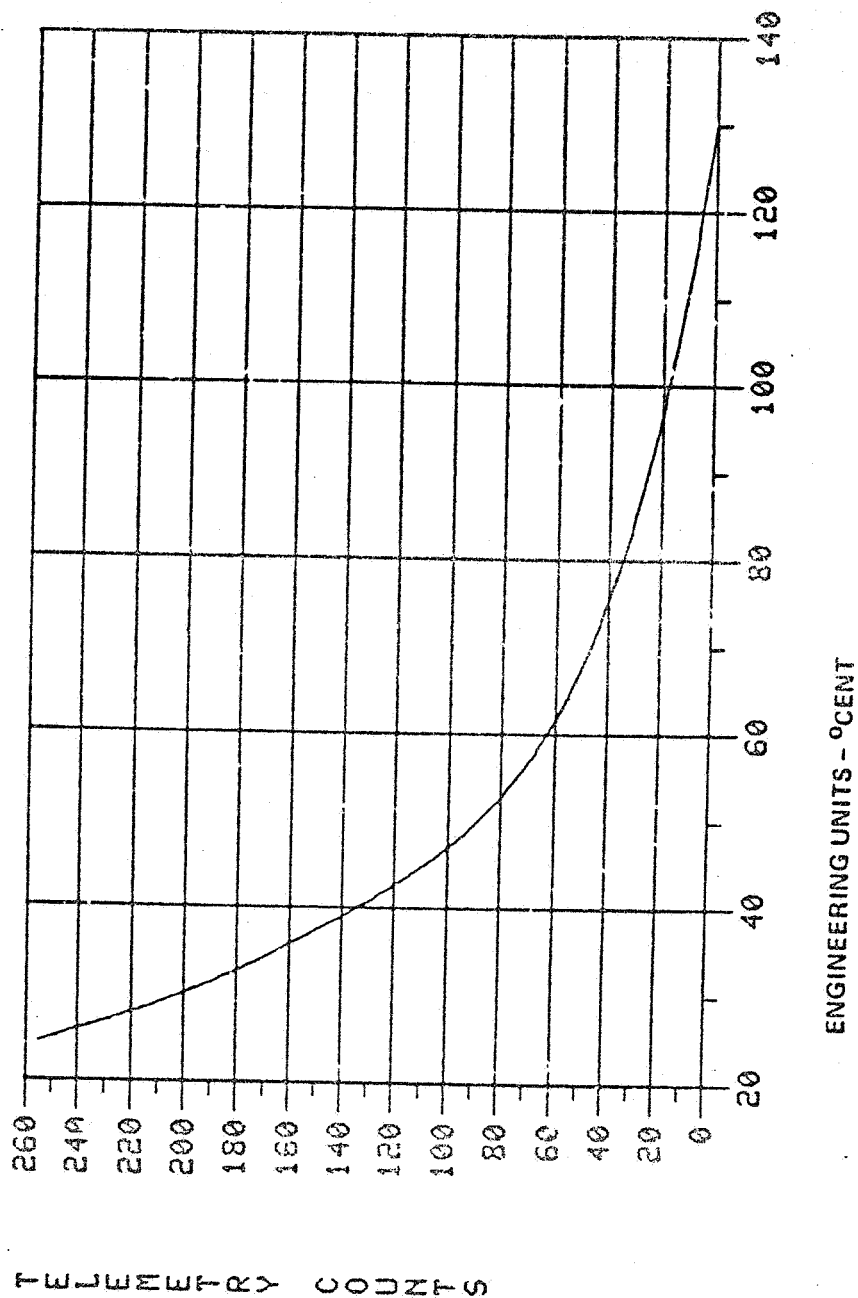
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COUNTS VS ENGINEERING UNITS FOR AIRUBMTI



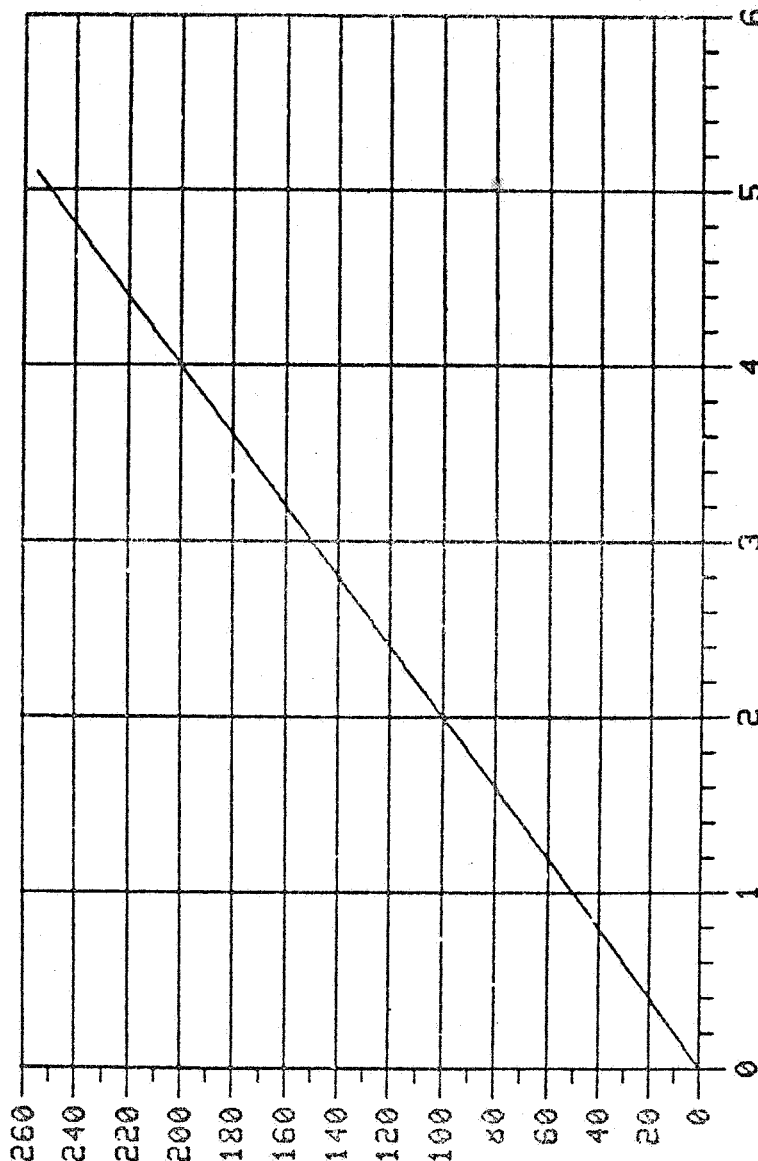
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COUNTS VS ENGINEERING UNITS FOR AIRUBTMP



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COUNTS VS ENGINEERING UNITS FOR AIRBULT

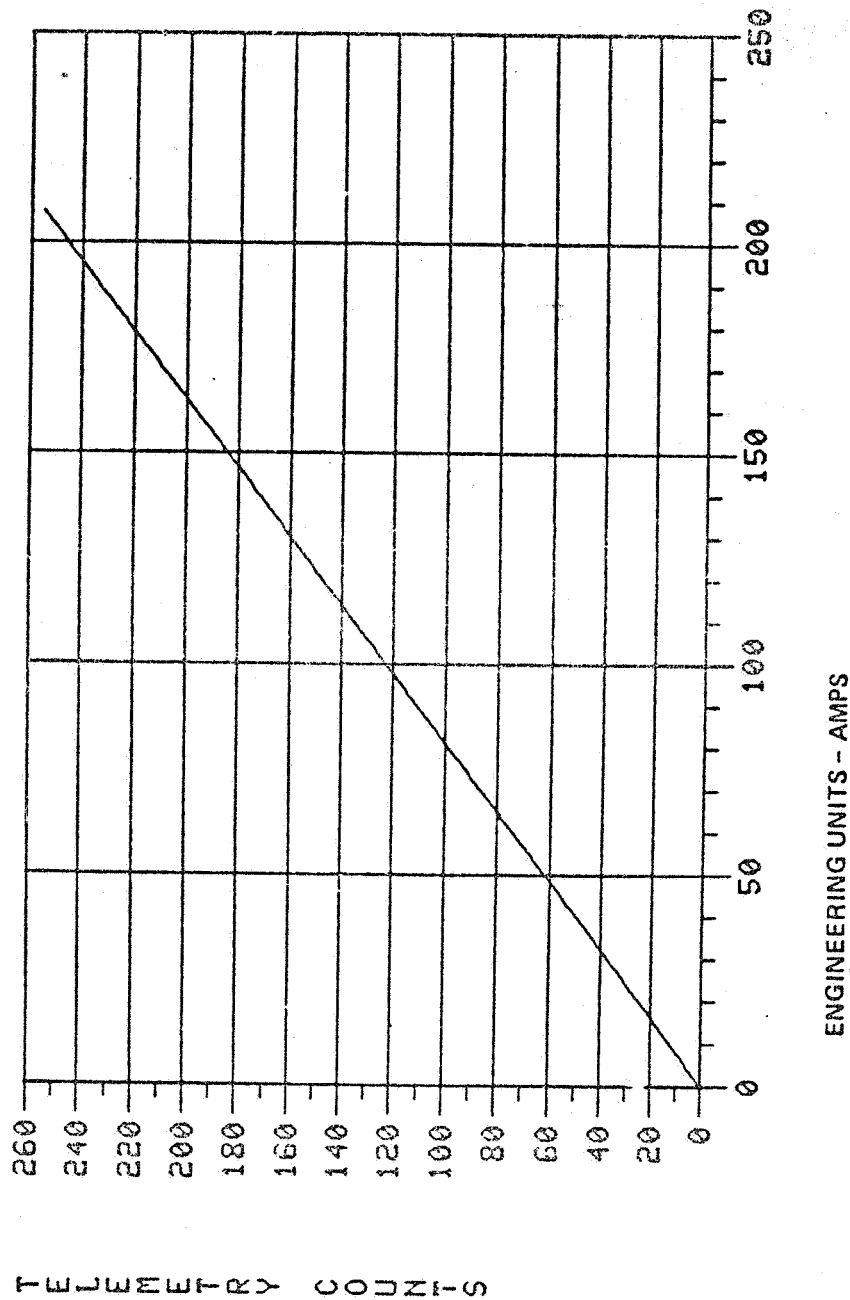


TELEMETRY COUNTS

ENGINEERING UNITS - VOLTS

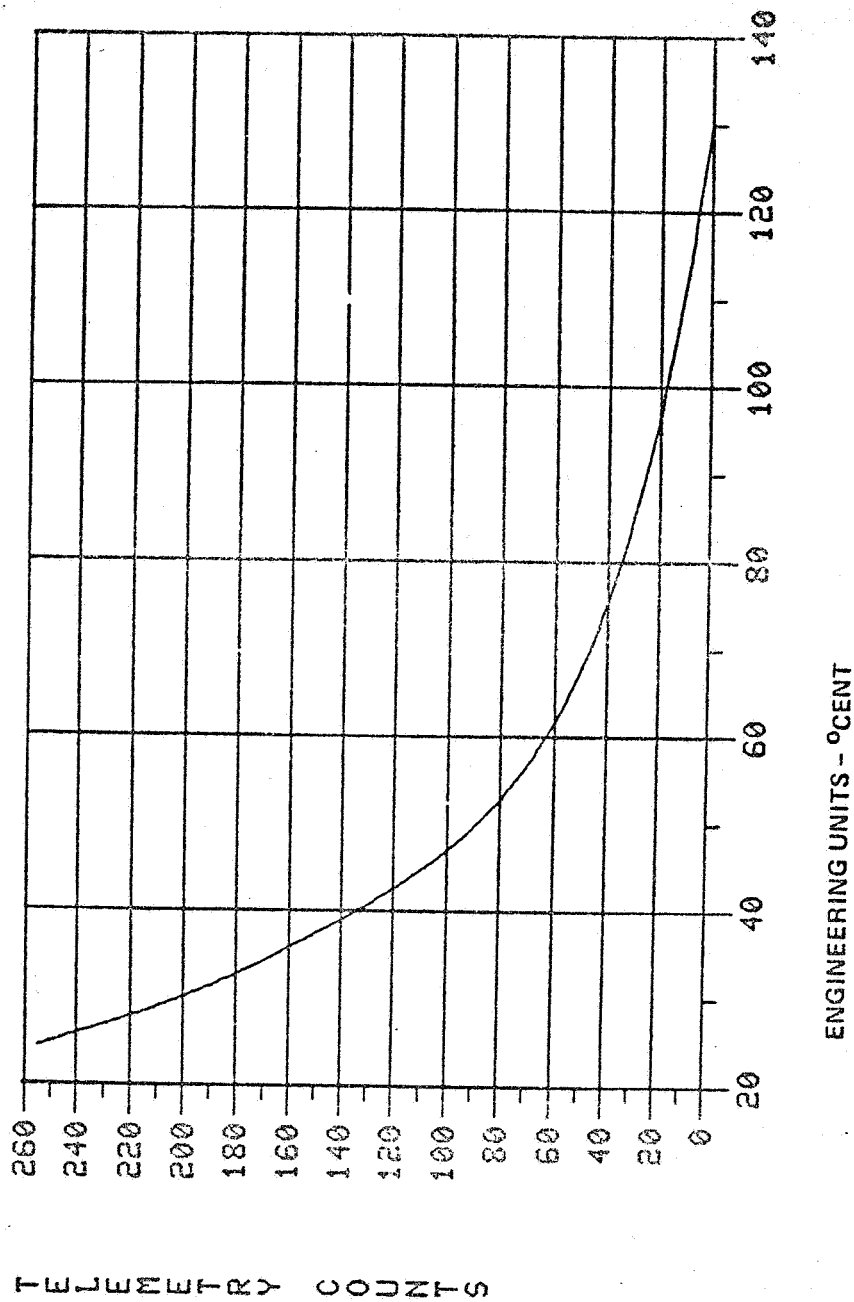
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COUNTS VS ENGINEERING UNITS FOR AIRUCMTI



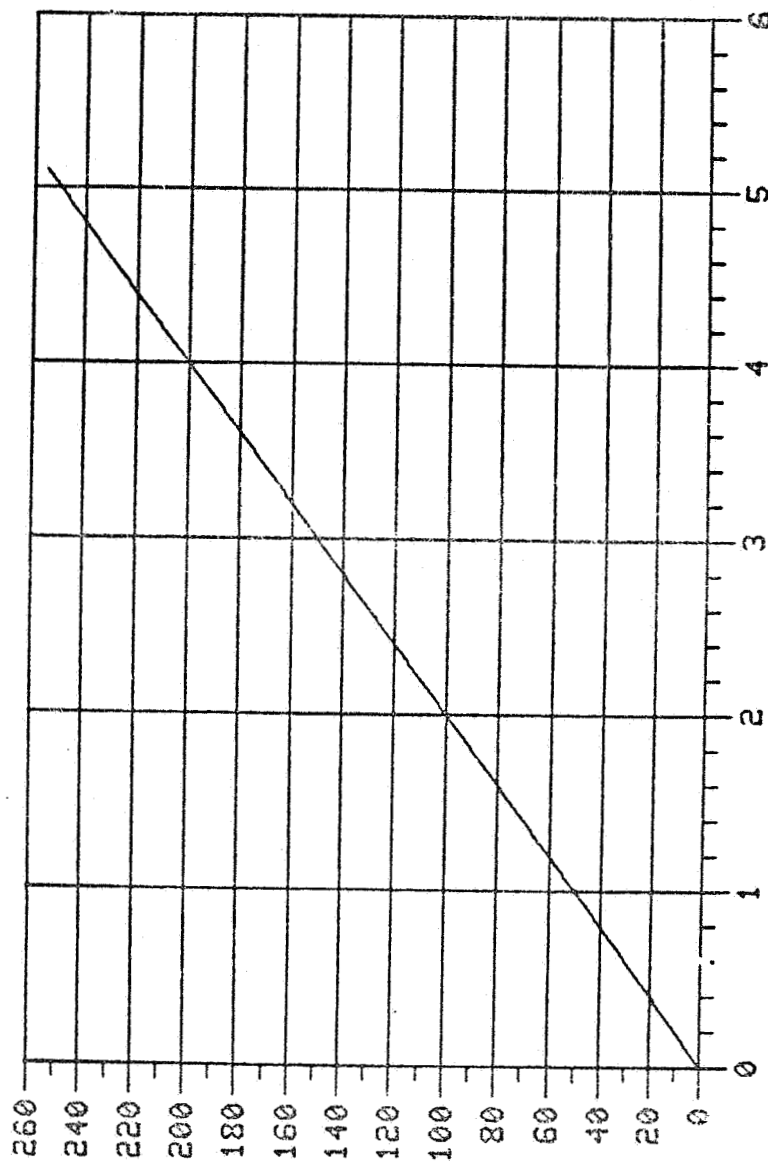
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COUNTS VS ENGINEERING UNITS FOR AIRUCTMP



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COUNTS VS ENGINEERING UNITS FOR AIRCULT

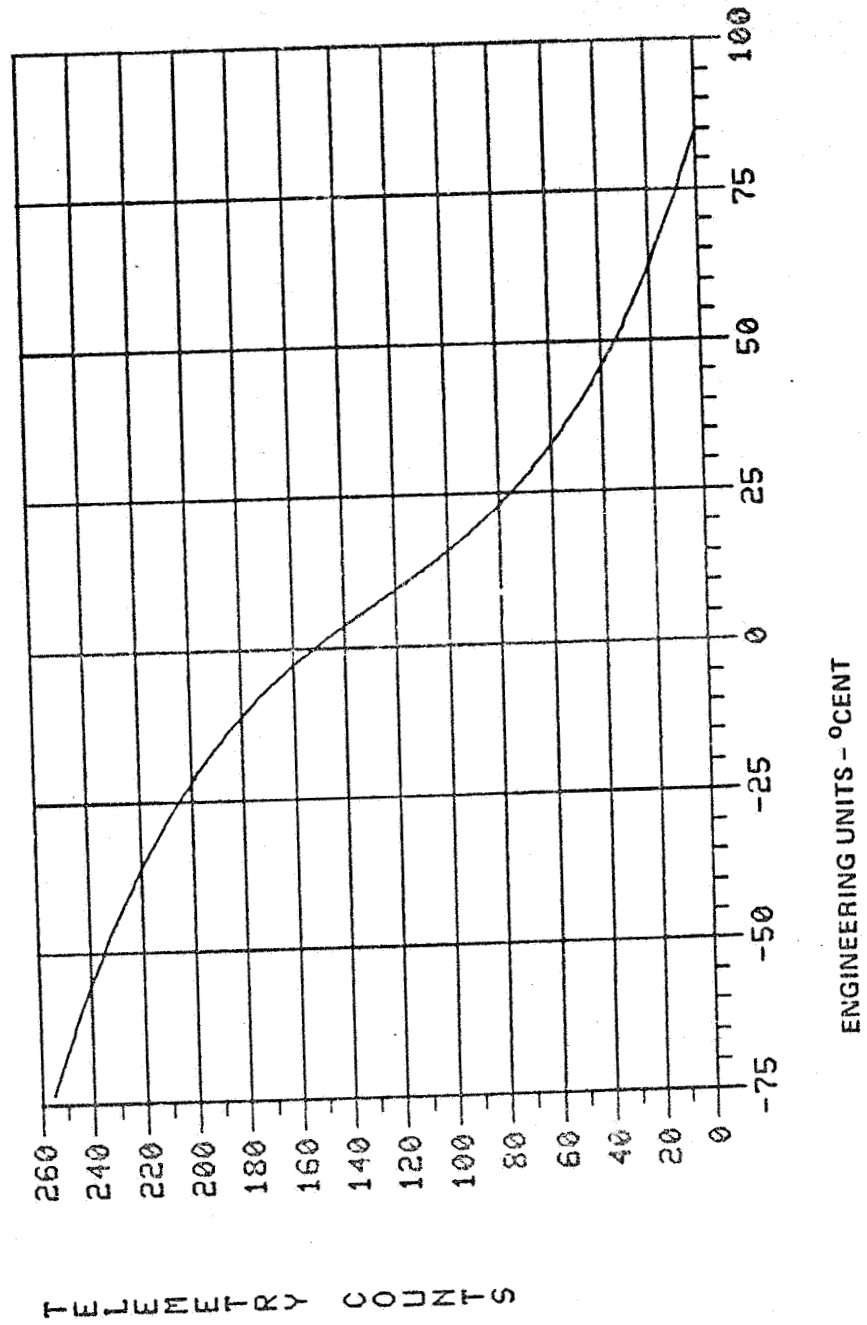


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

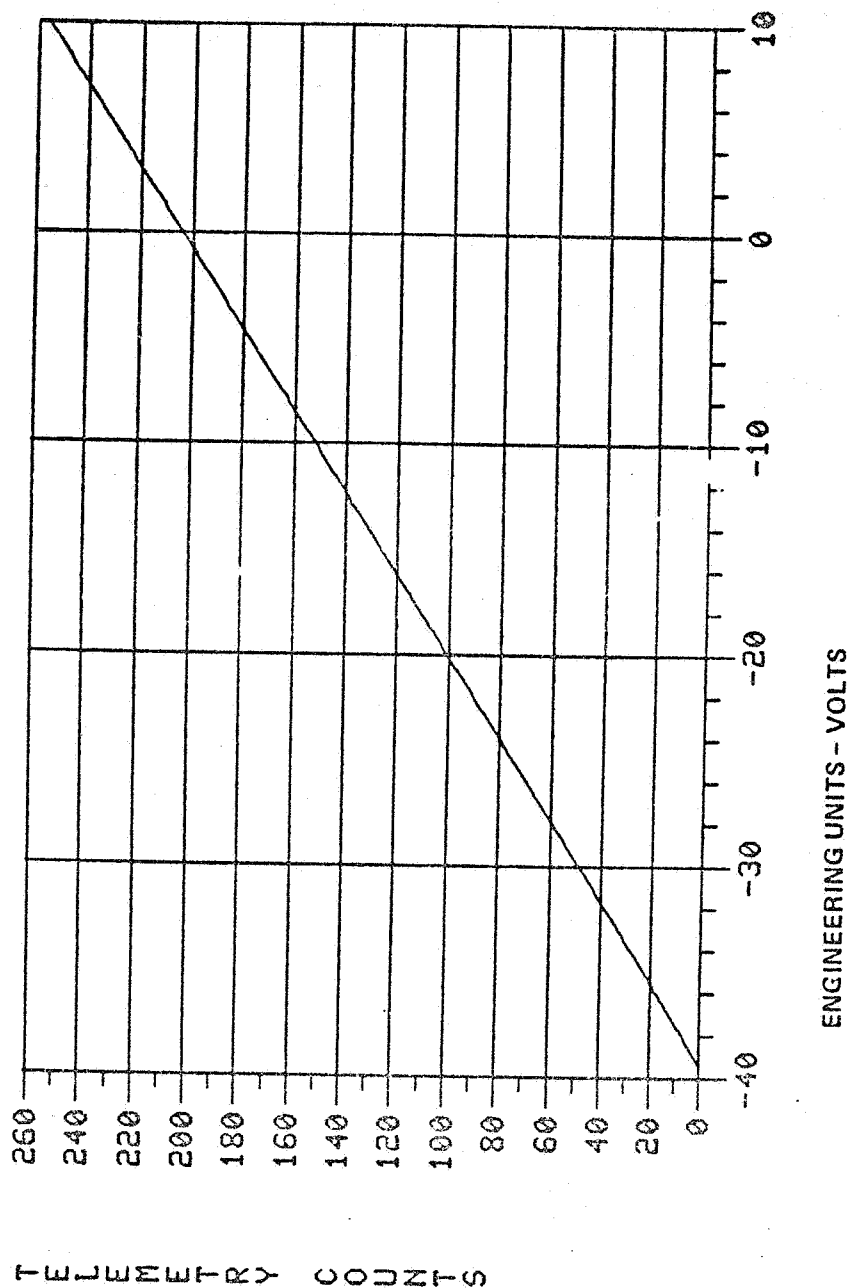
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COUNTS VS ENGINEERING UNITS FOR AIRUOBTP



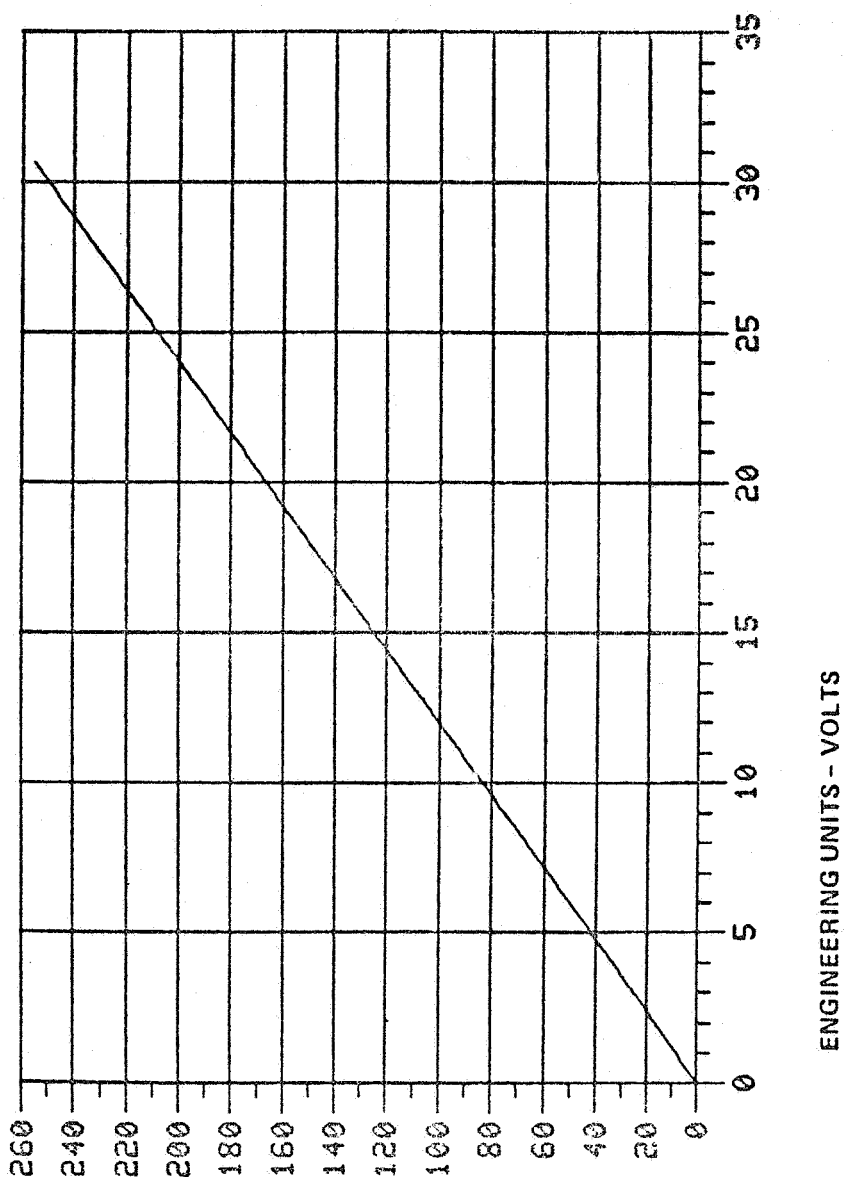
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COUNTS VS ENGINEERING UNITS FOR AN15VOLT



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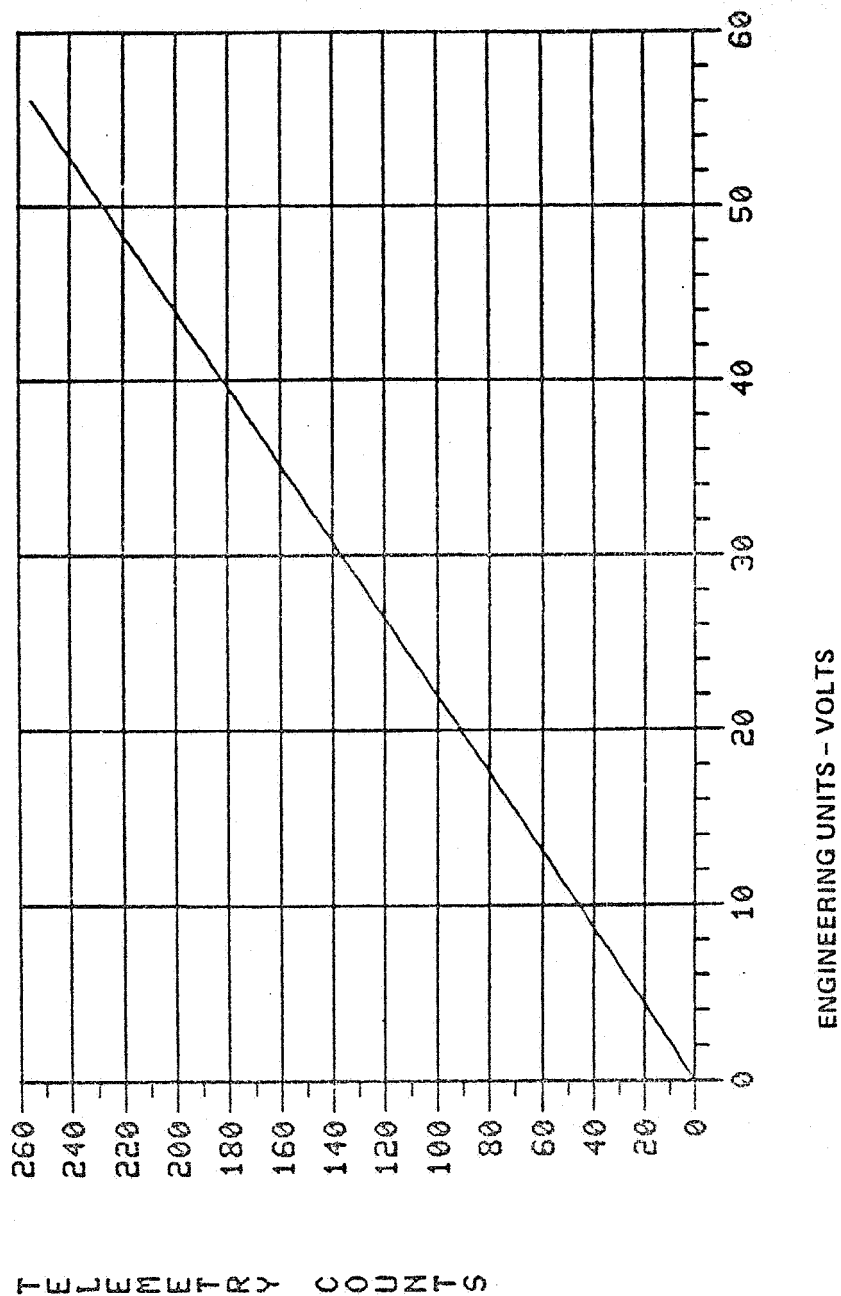
COUNTS VS ENGINEERING UNITS FOR AP15VOLT



TELEMETRY COUNTS

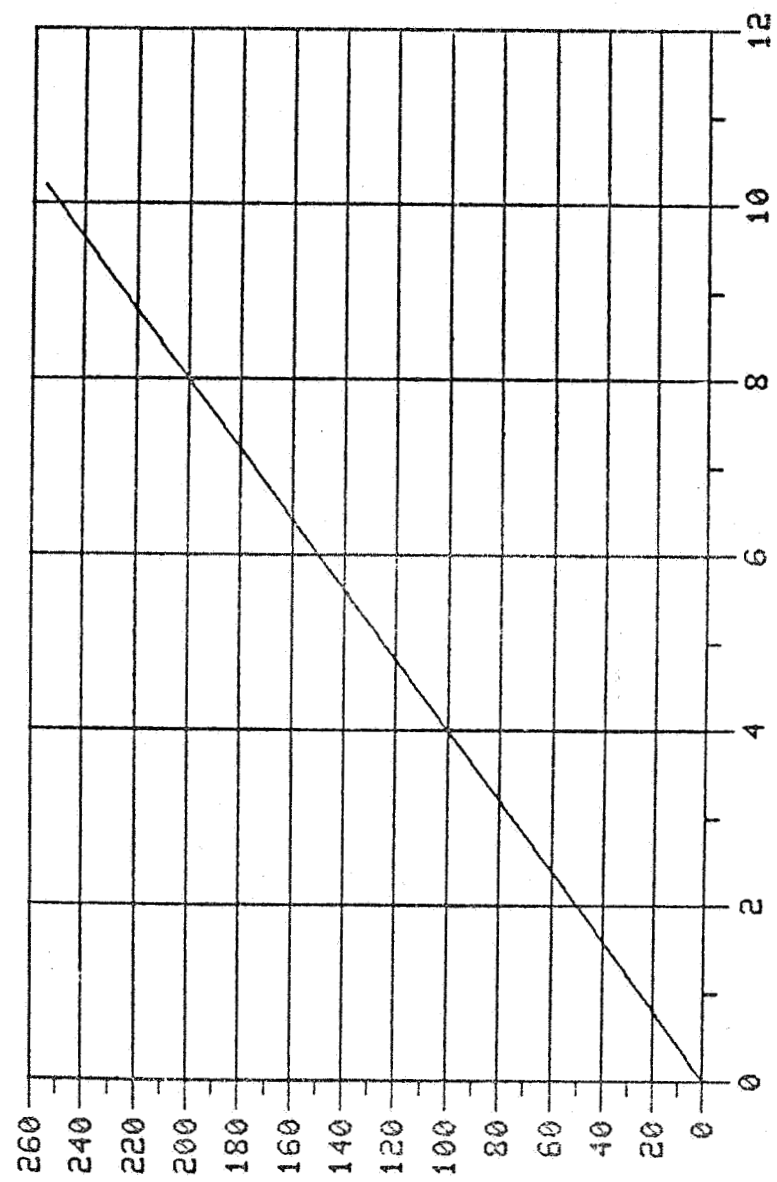
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COUNTS VS ENGINEERING UNITS FOR AP28UOLT



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COUNTS VS ENGINEERING UNITS FOR AP5VOLT

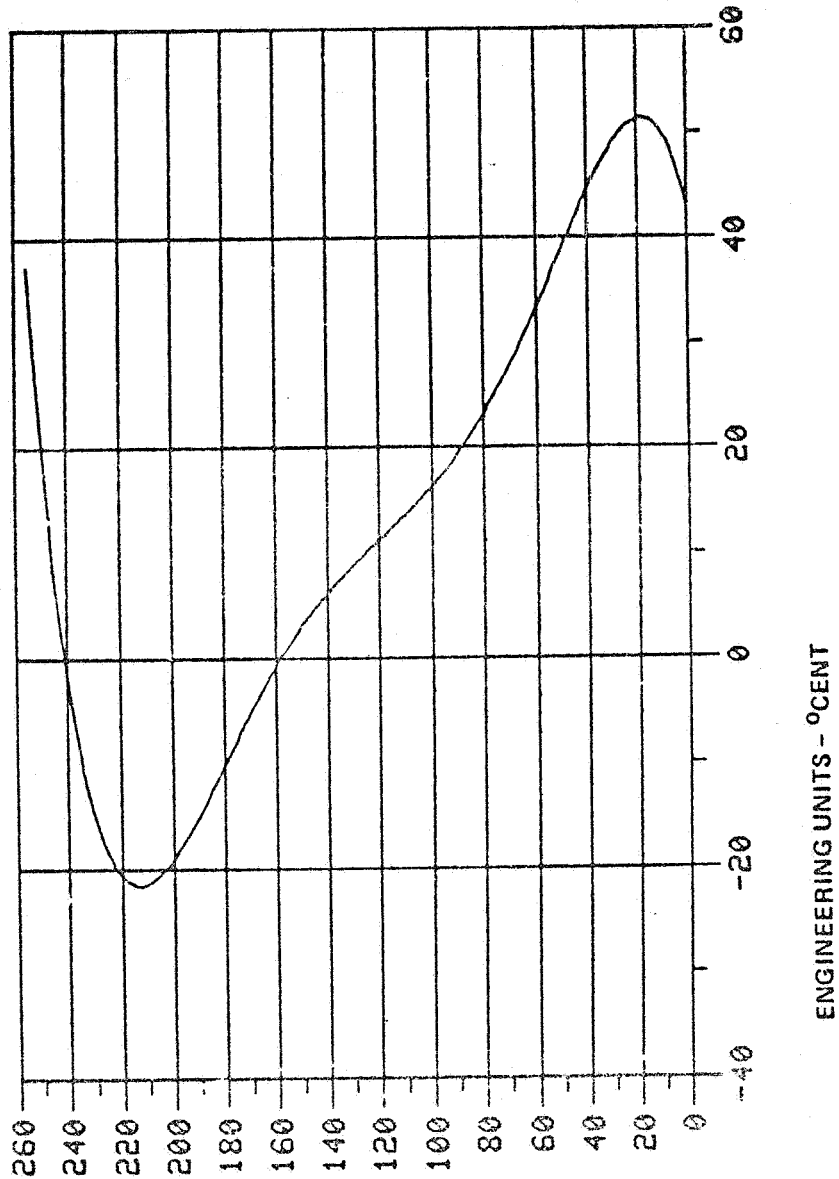


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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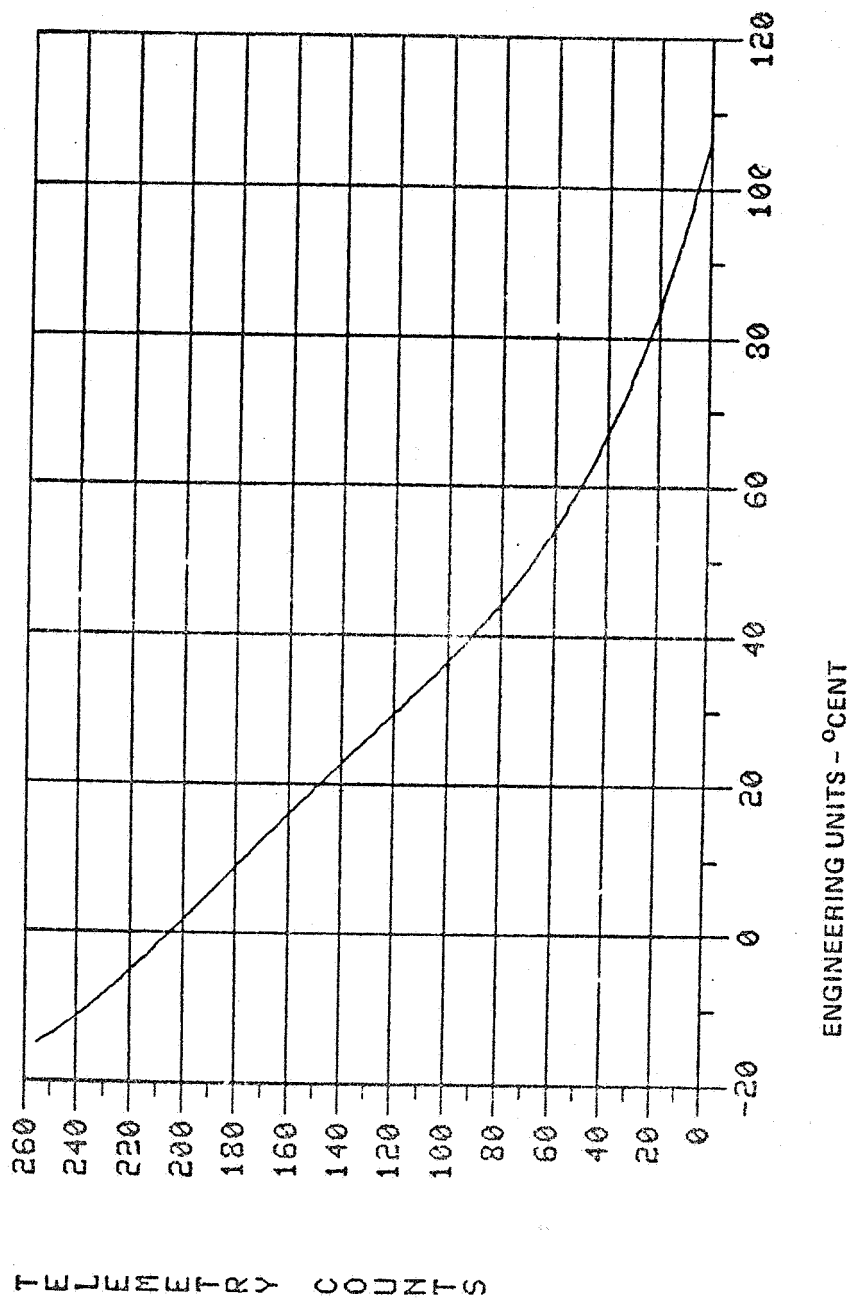
COUNTS VS ENGINEERING UNITS FOR APSUTMP



TELEMETRY COUNTS

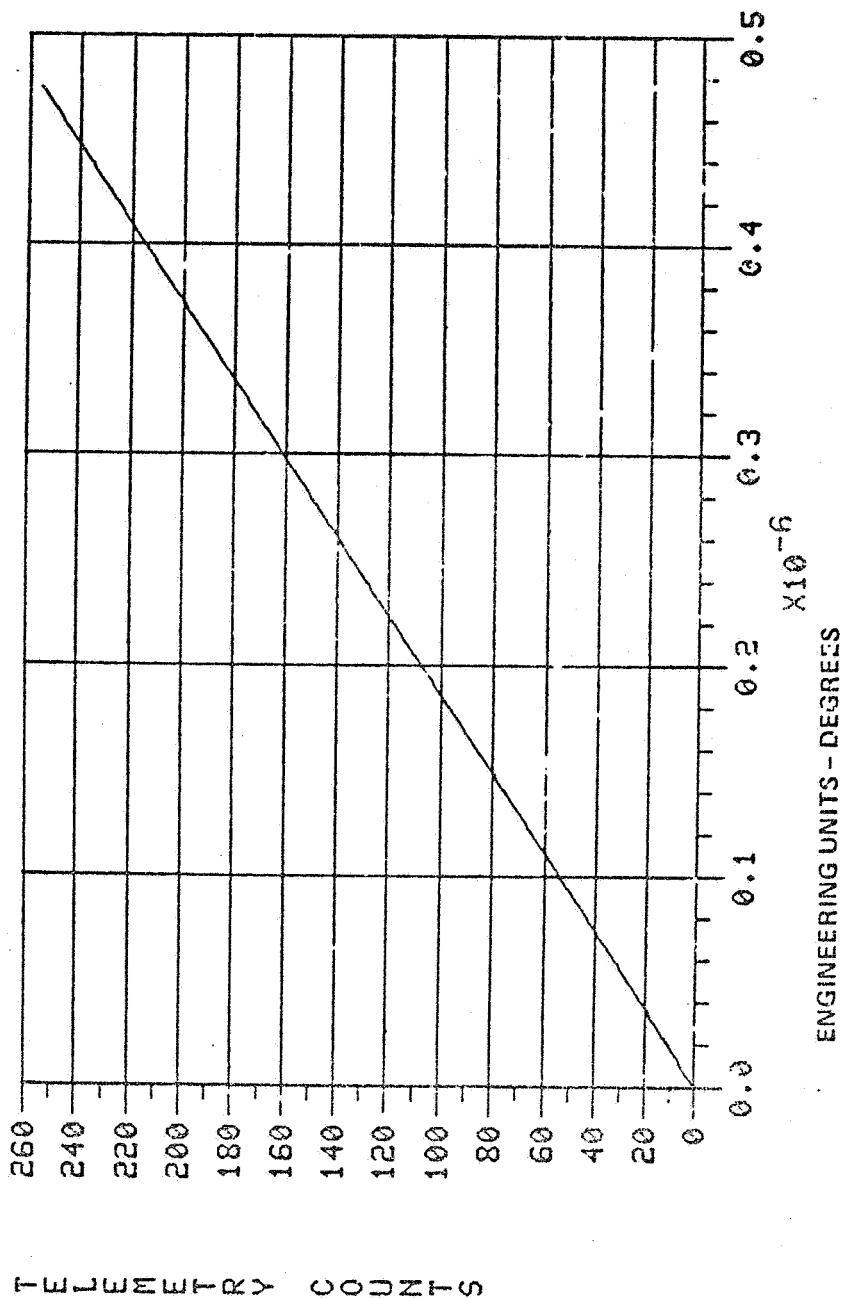
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COUNTS VS ENGINEERING UNITS FOR ARIU2TMP



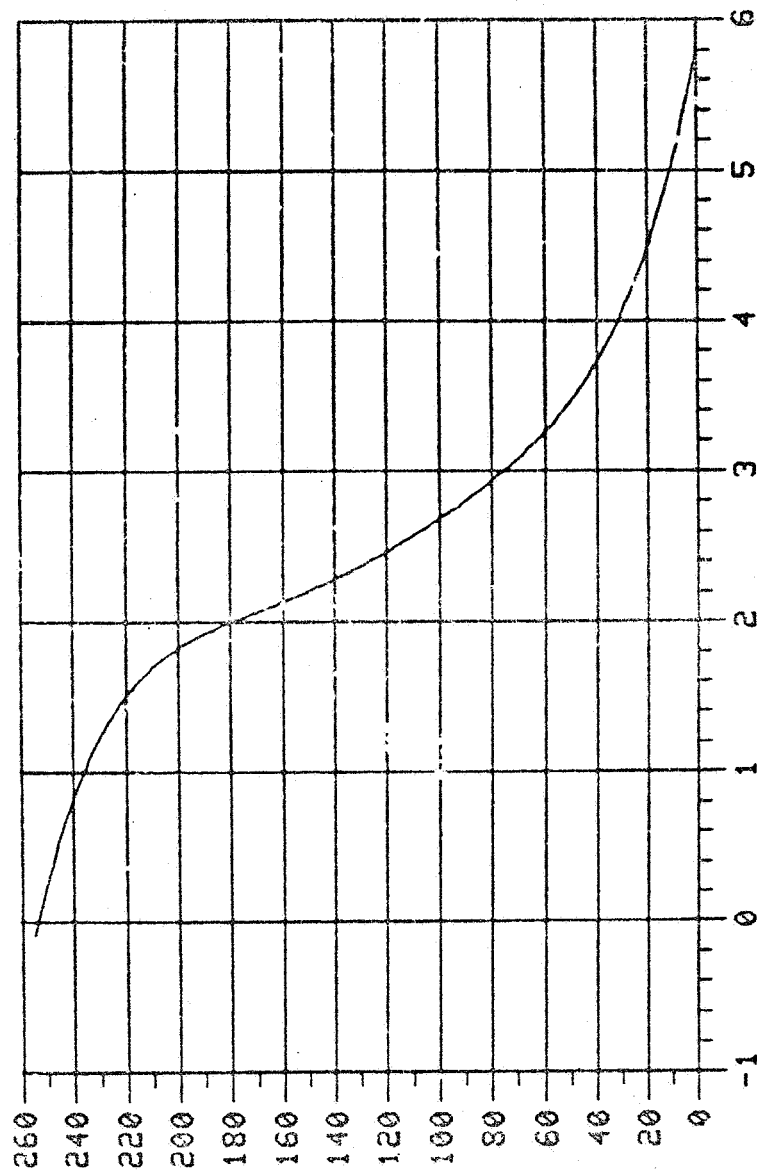
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COUNTS VS ENGINEERING UNITS FOR AST1HORZ



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COUNTS VS ENGINEERING UNITS FOR ASTIMAG

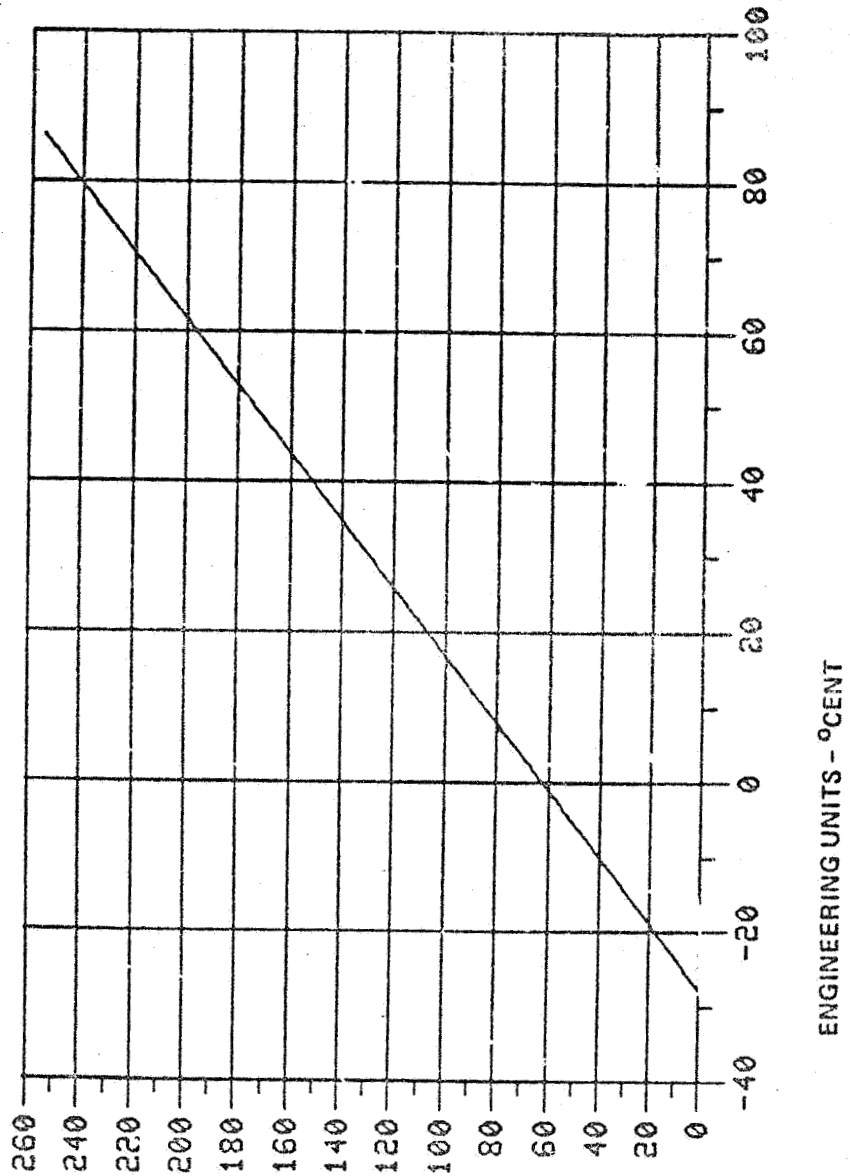


TELEMETRY COUNTS

ENGINEERING UNITS - VISUAL MAGNITUDE

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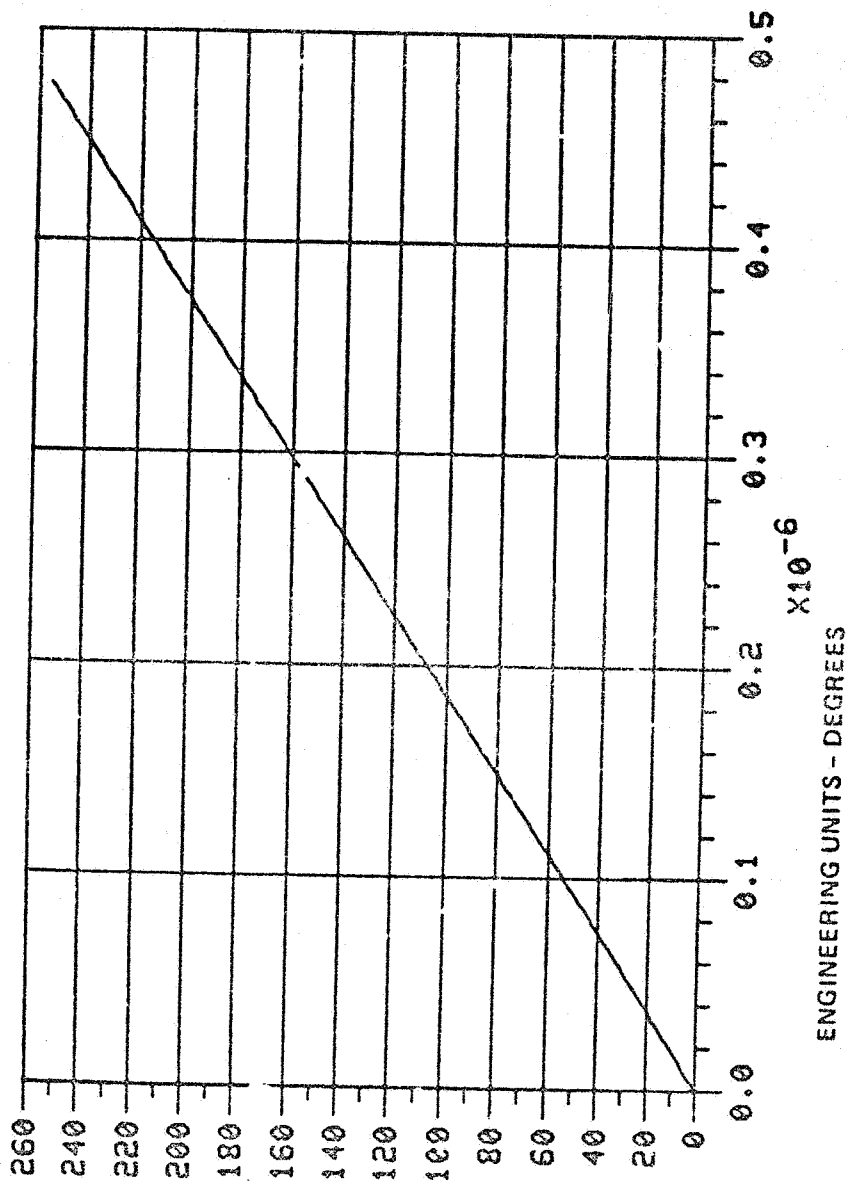
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TELEMETRY COUNTS

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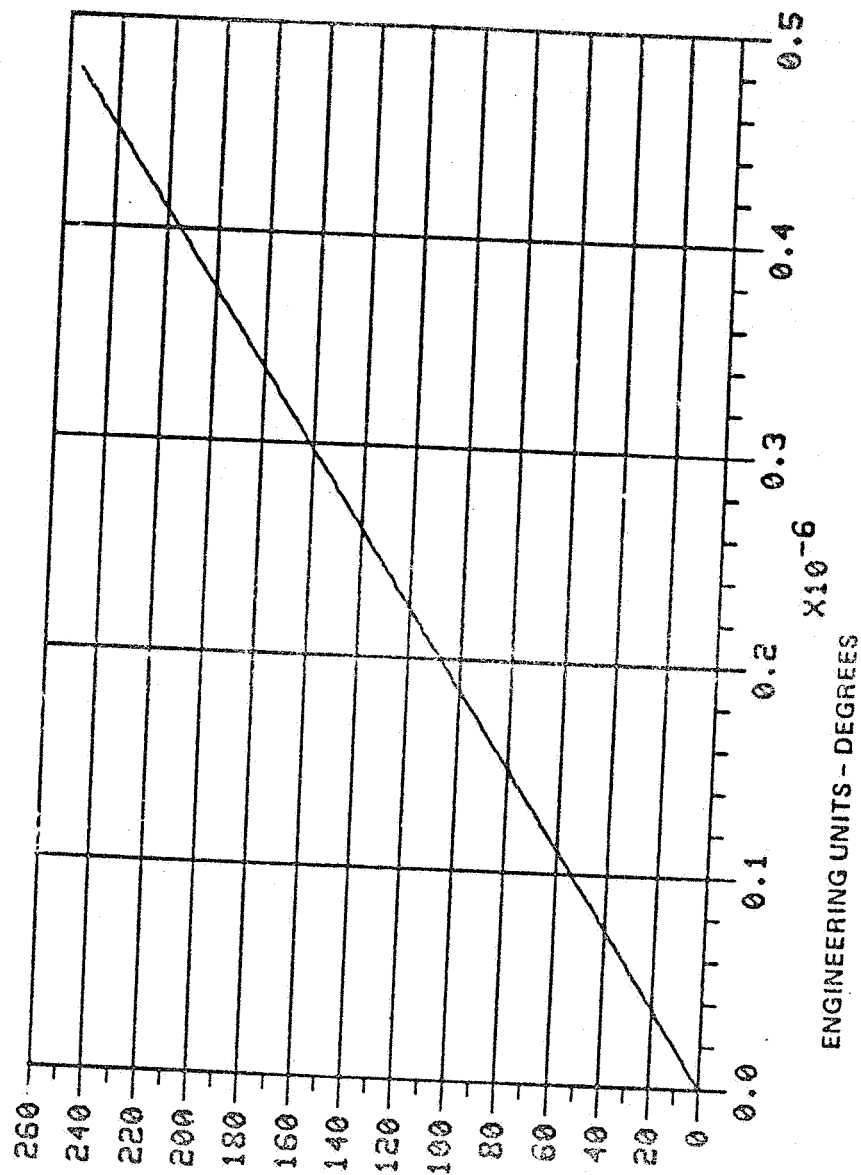
COUNTS VS ENGINEERING UNITS FOR AST1UERT



TELEMETRY COUNTS

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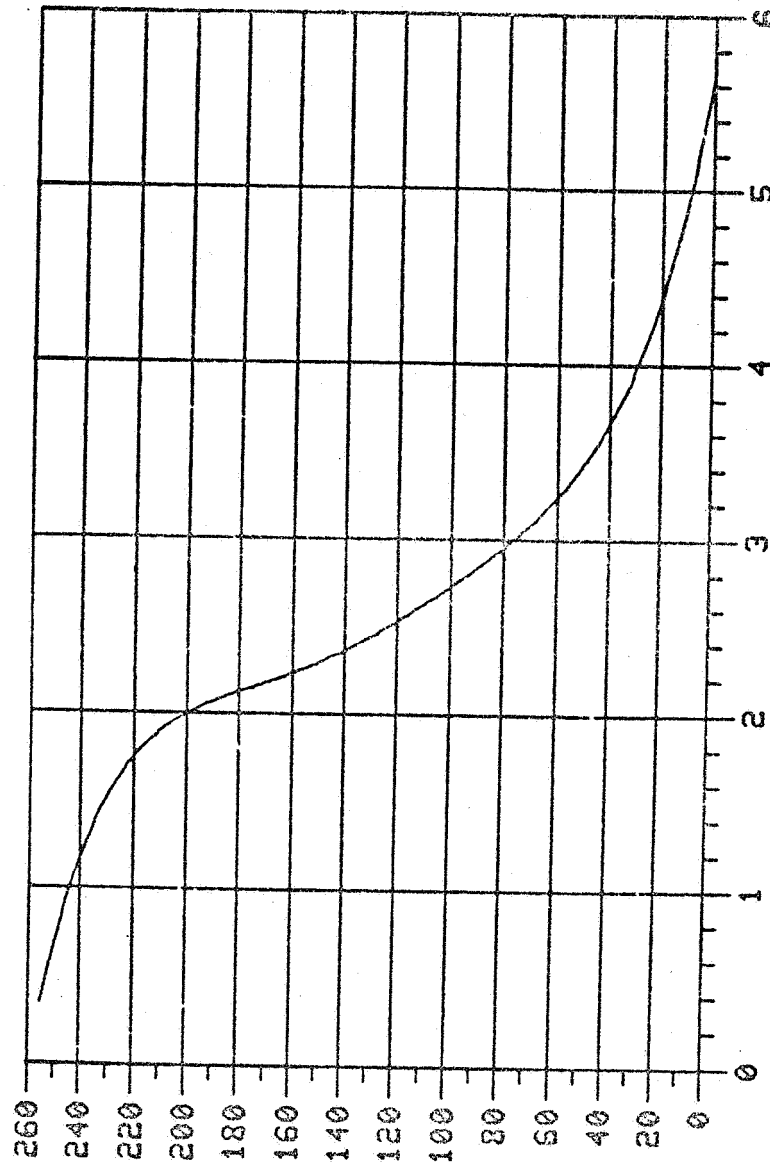
COUNTS VS ENGINEERING UNITS FOR AST2HORZ



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR AST2MAG

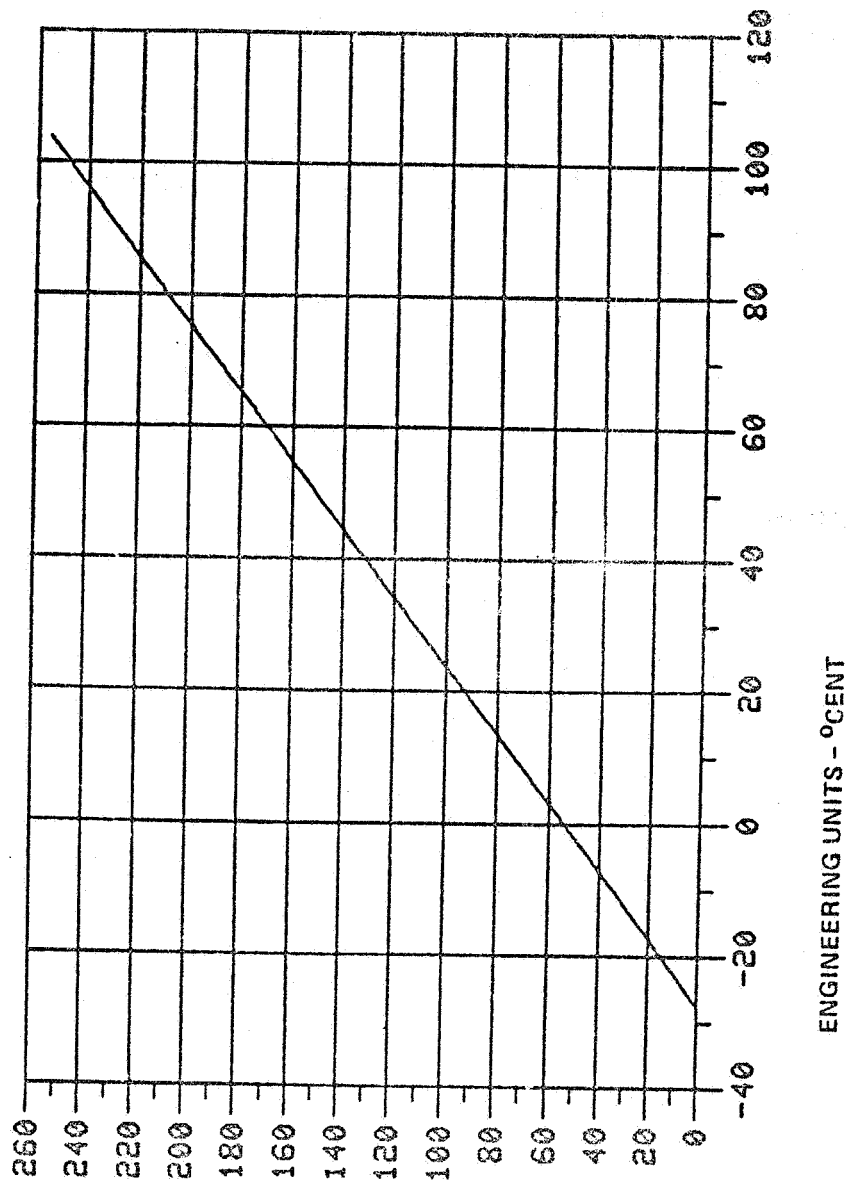


ENGINEERING UNITS - VISUAL MAGNITUDE

TELEMETRY COUNTS

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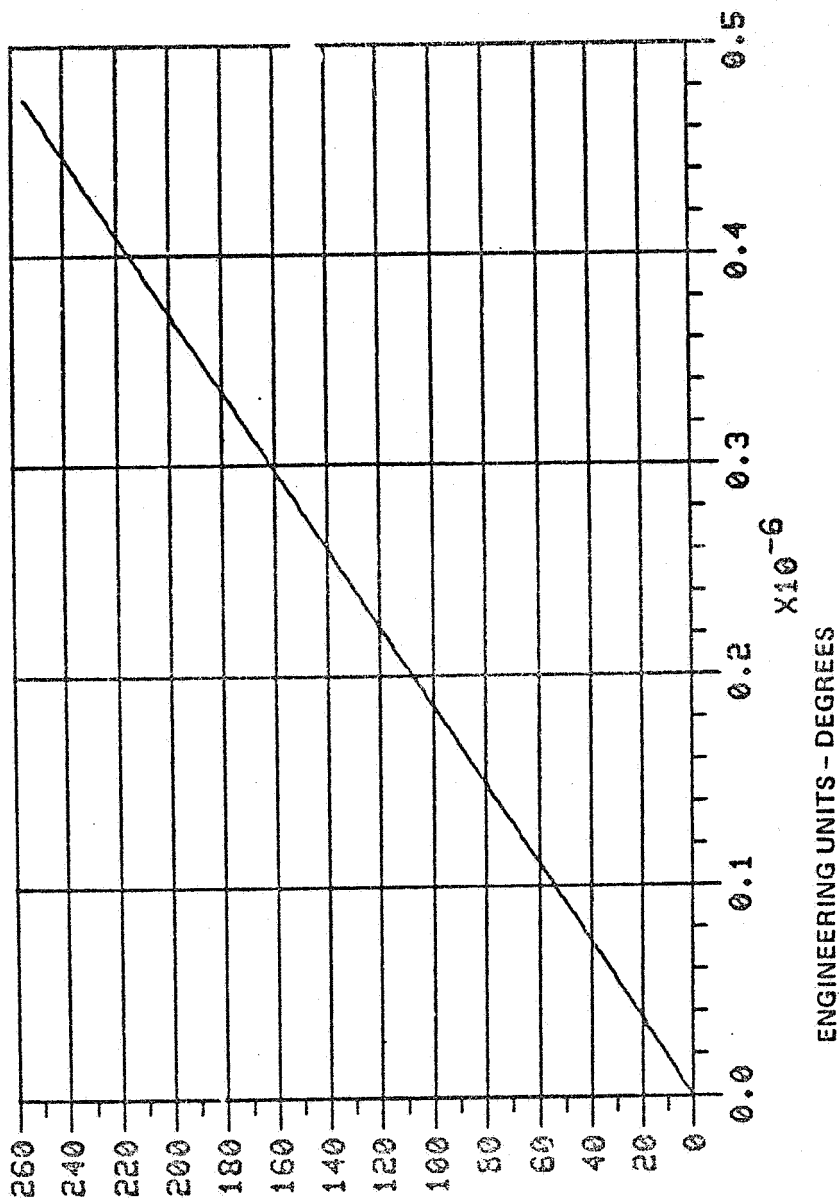
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TELEMETRY COUNTS

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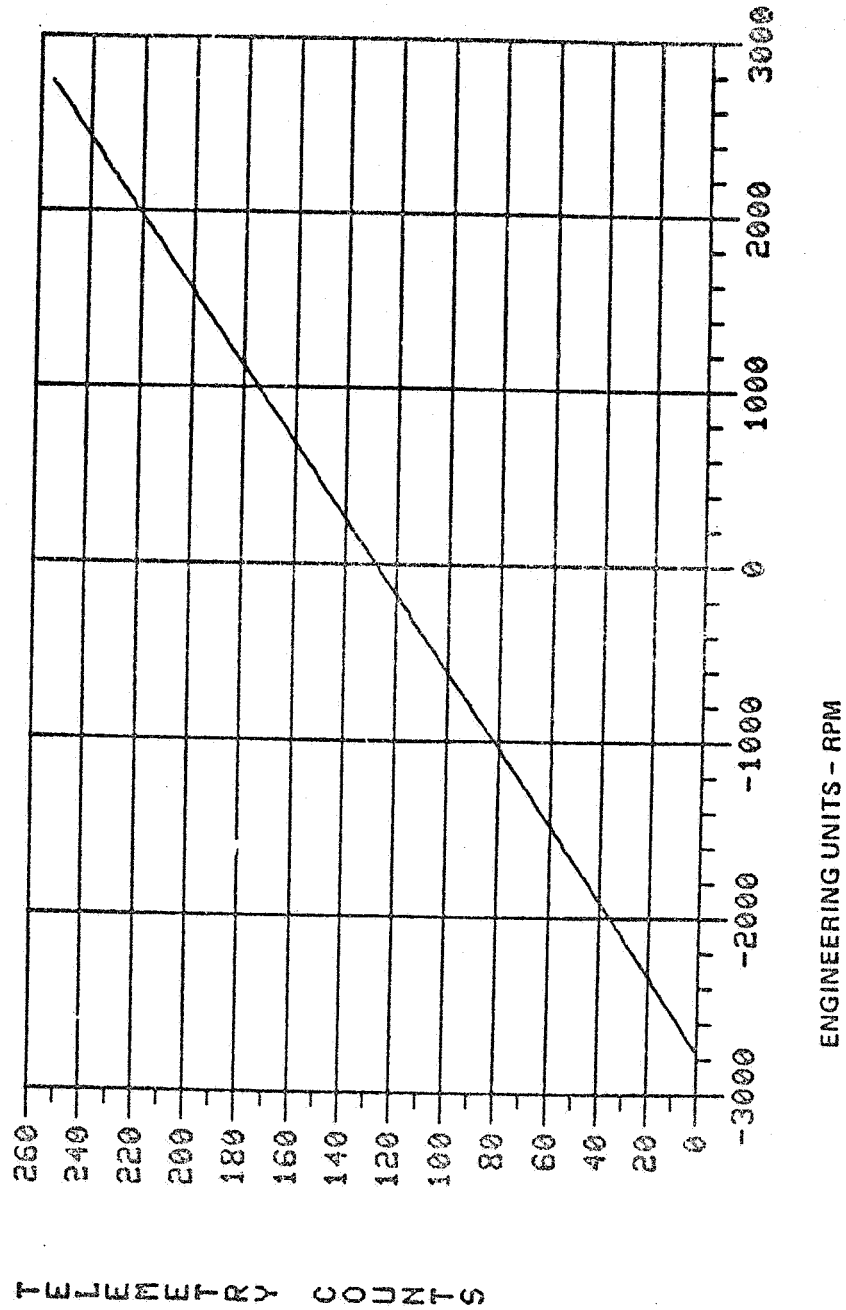
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TELEMETRY COUNTS

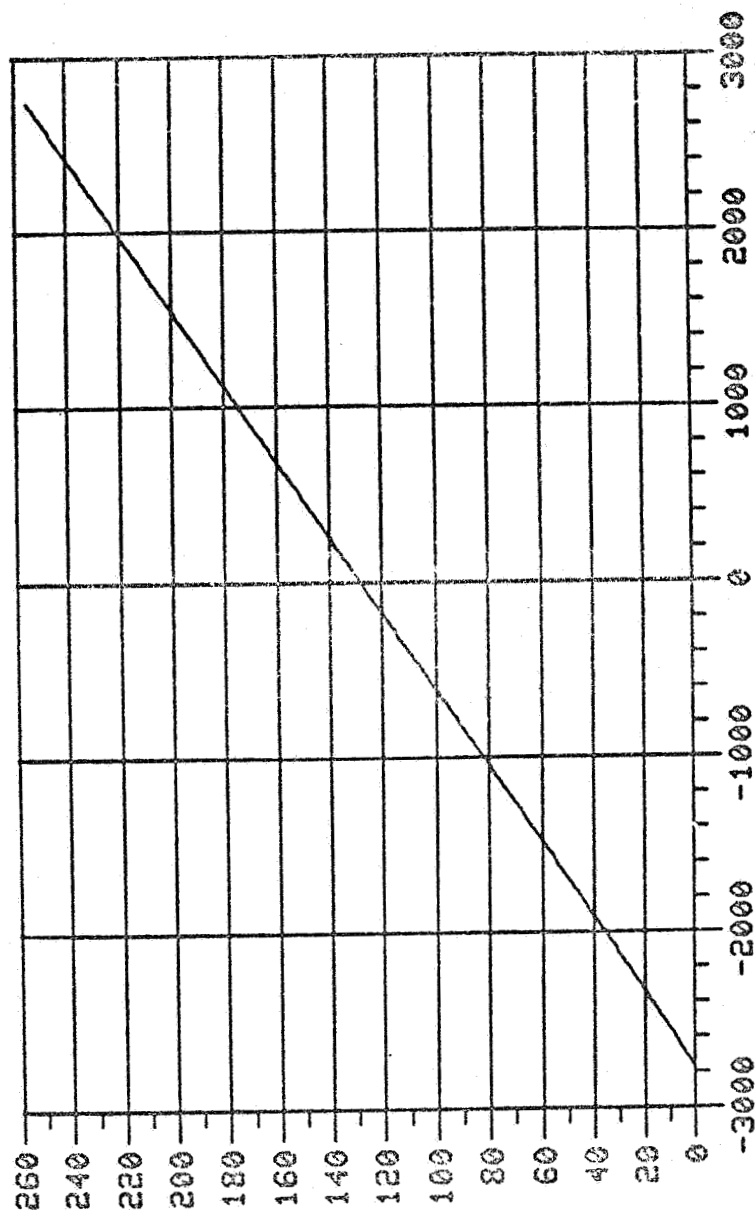
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COUNTS VS ENGINEERING UNITS FOR ASTACHA



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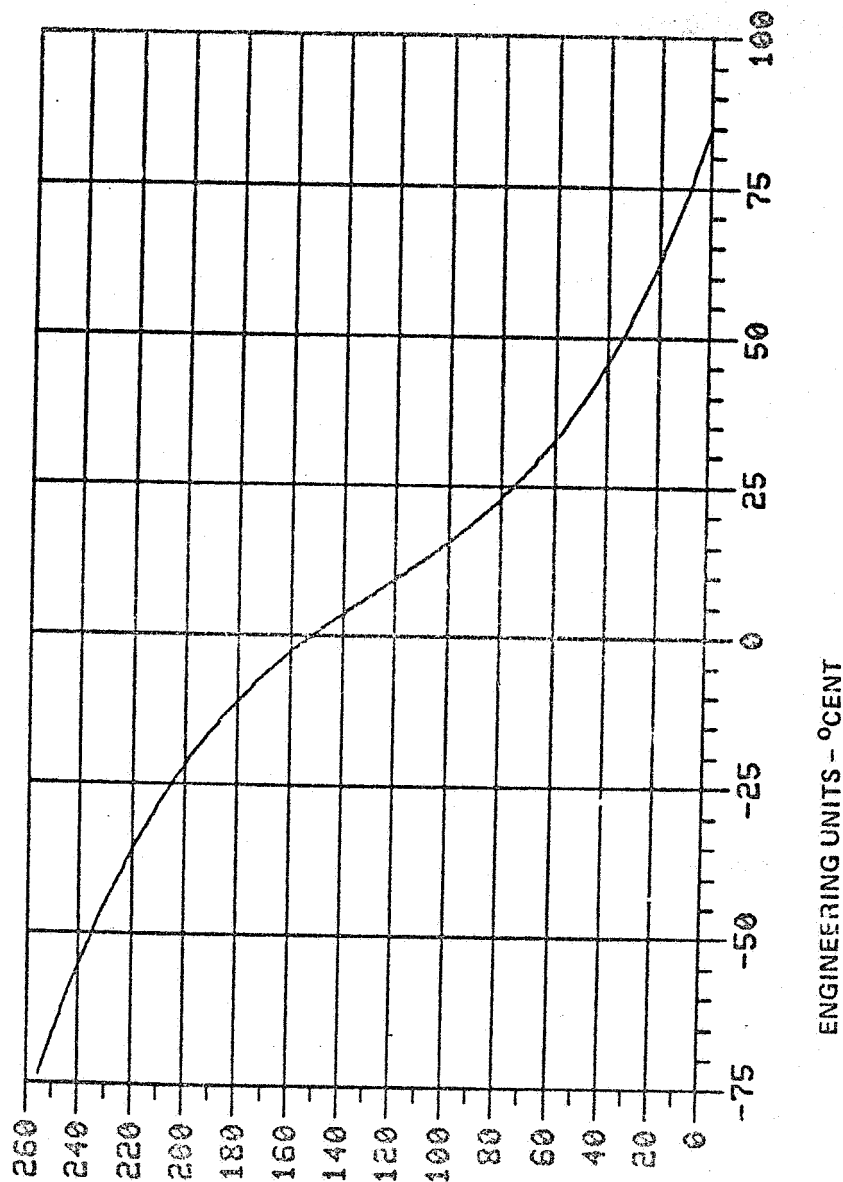


TELEMETRY COUNTS

ENGINEERING UNITS - RPM

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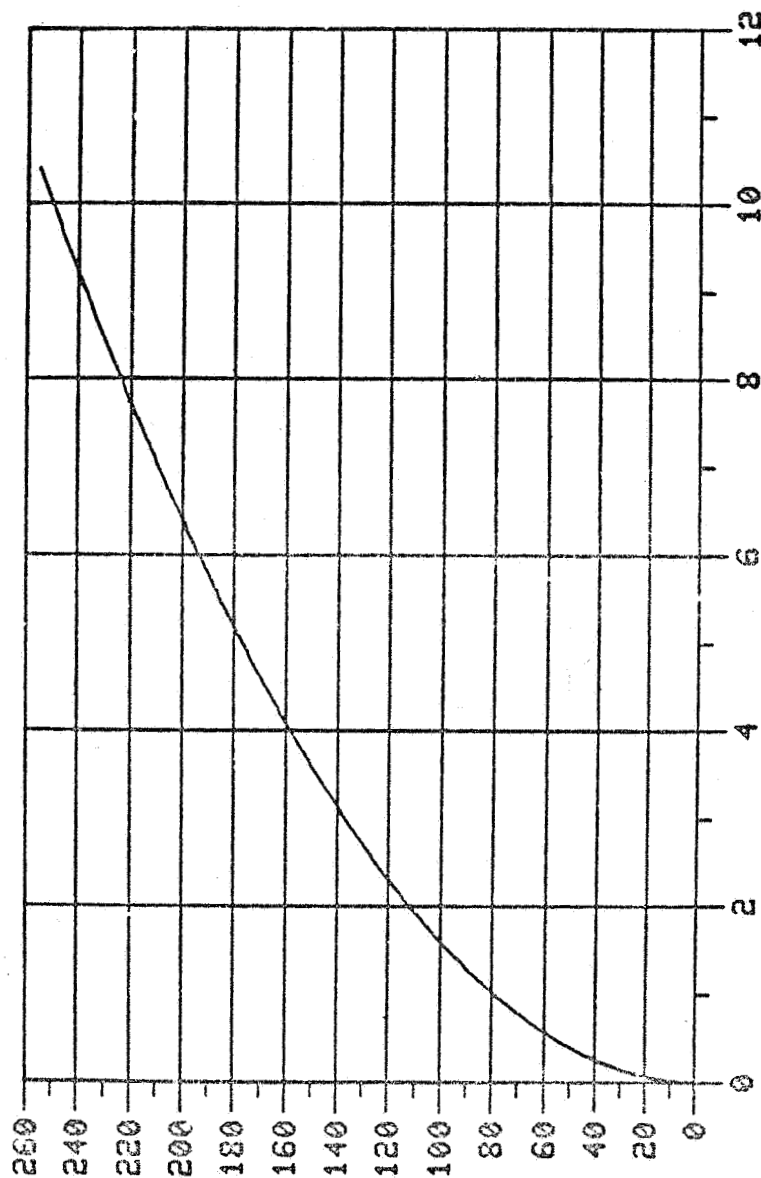
COUNTS VS ENGINEERING UNITS FOR ASTOBTMP



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR ASUHDRUA

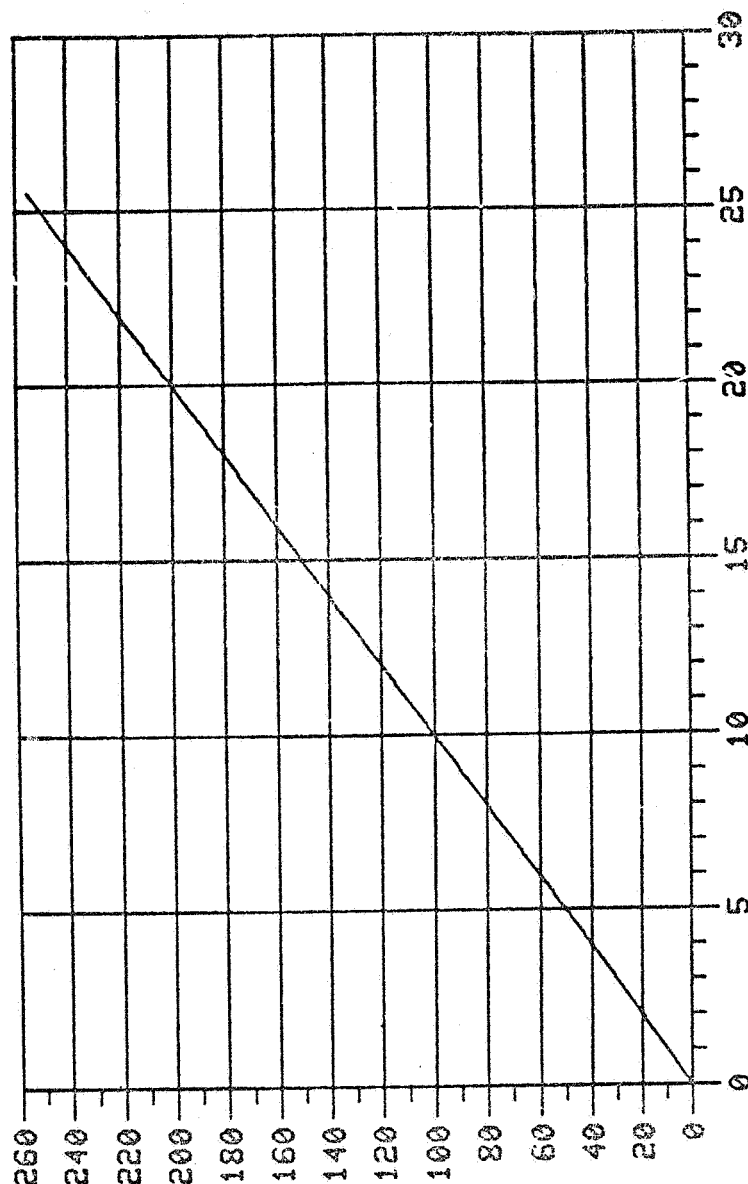


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR ASUHDRUB

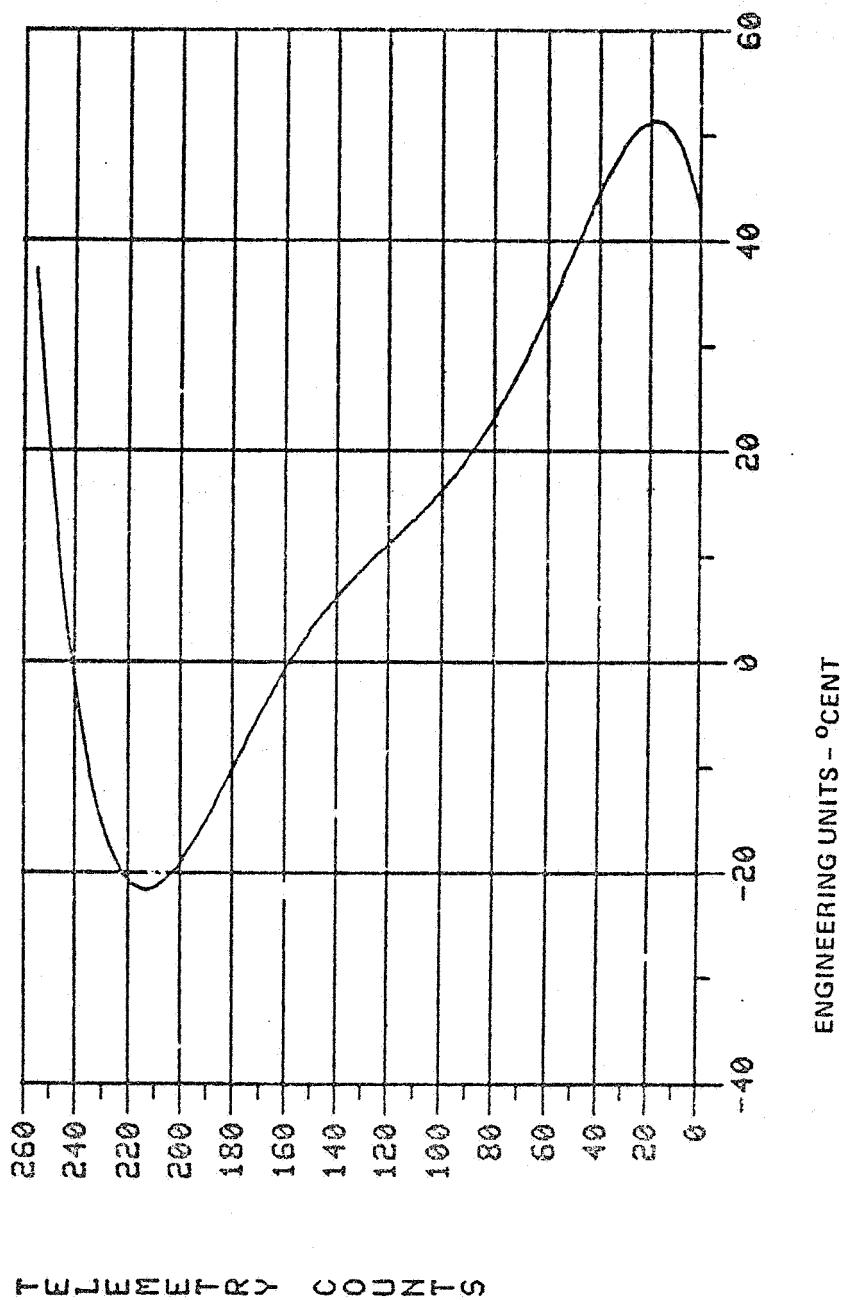


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

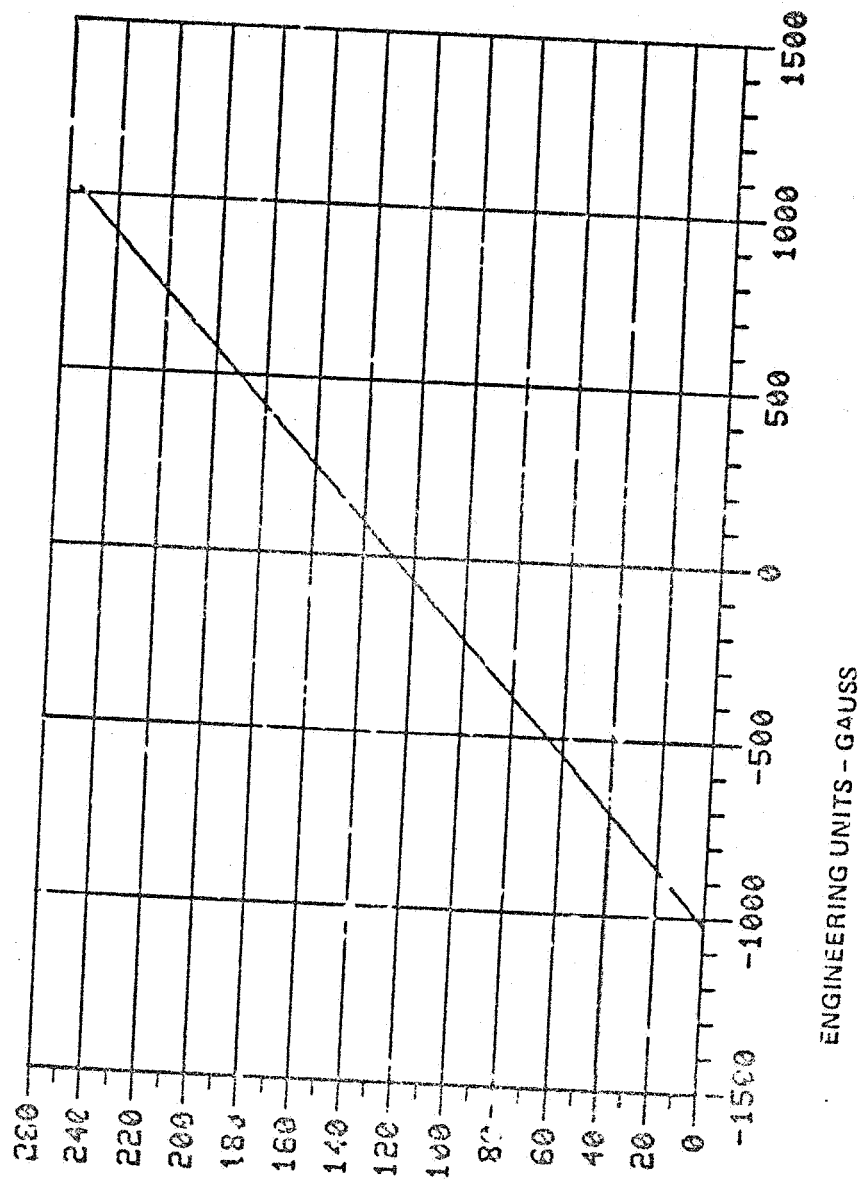
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COUNTS VS ENGINEERING UNITS FOR ASUHLTMP



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COUNTS VS ENGINEERING UNITS FOR ATAMIX

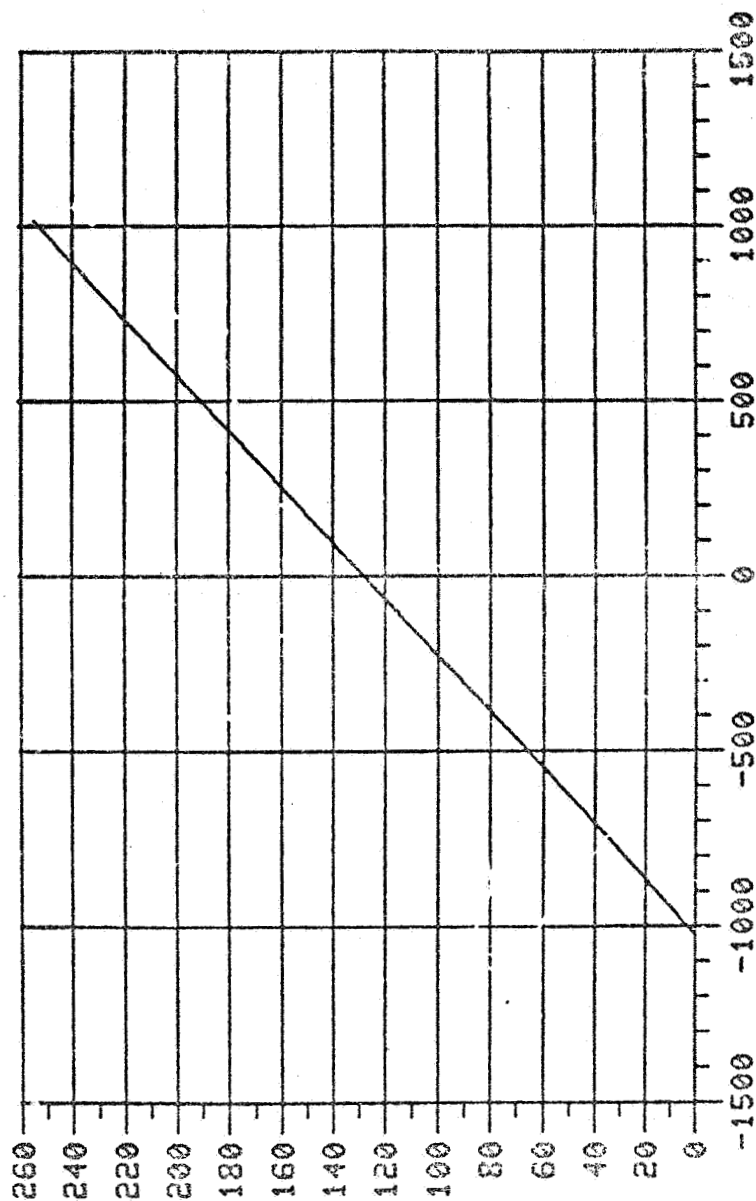


TELEMETRY COUNTS

ENGINEERING UNITS - GAUSS

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COUNTS VS ENGINEERING UNITS FOR ATAM1Y

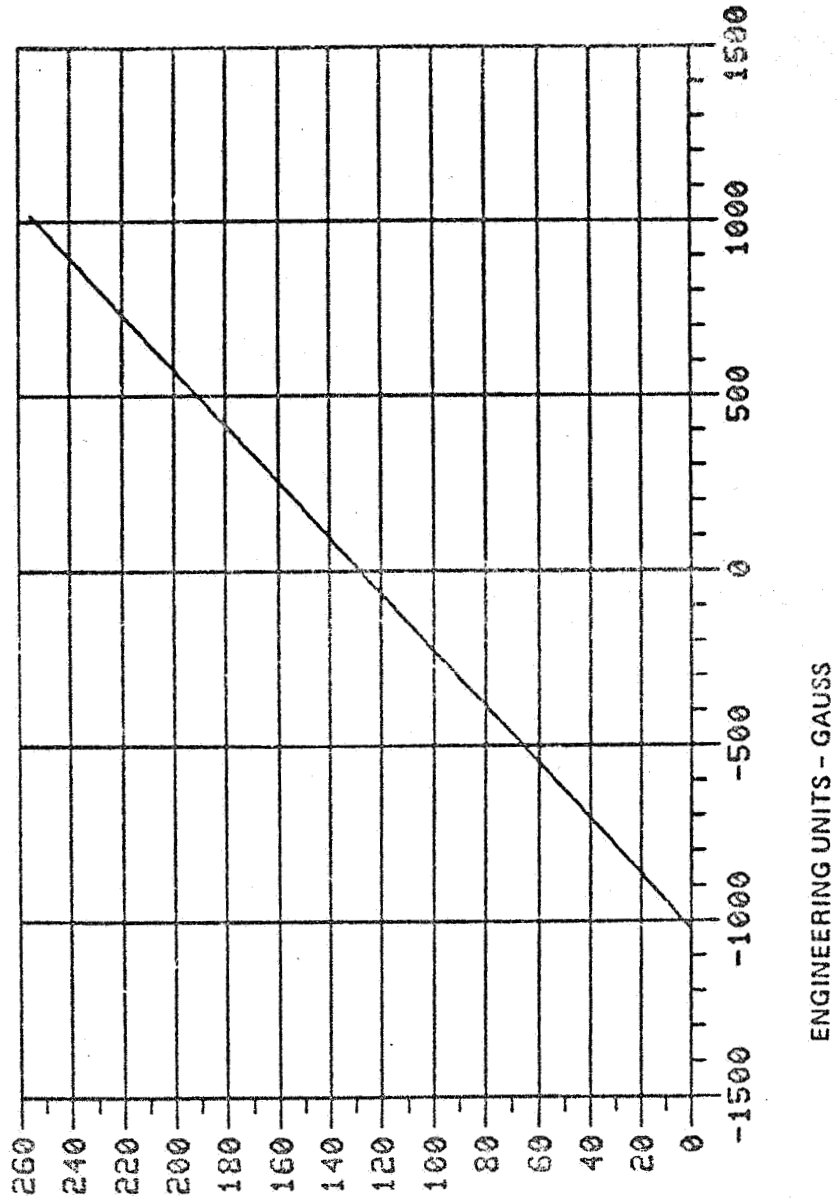


ENGINEERING UNITS - GAUSS

PULSE RATE COUNTS

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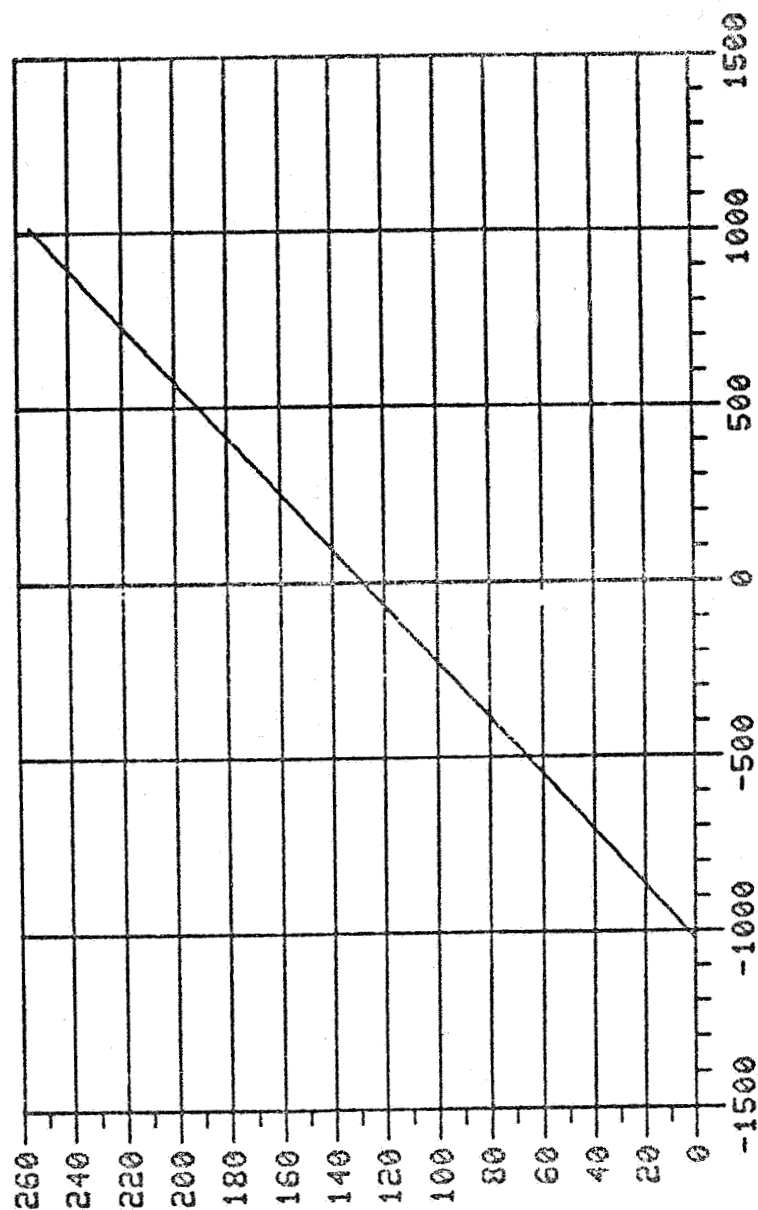
COUNTS VS ENGINEERING UNITS FOR ATAM12



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR ATAM2X

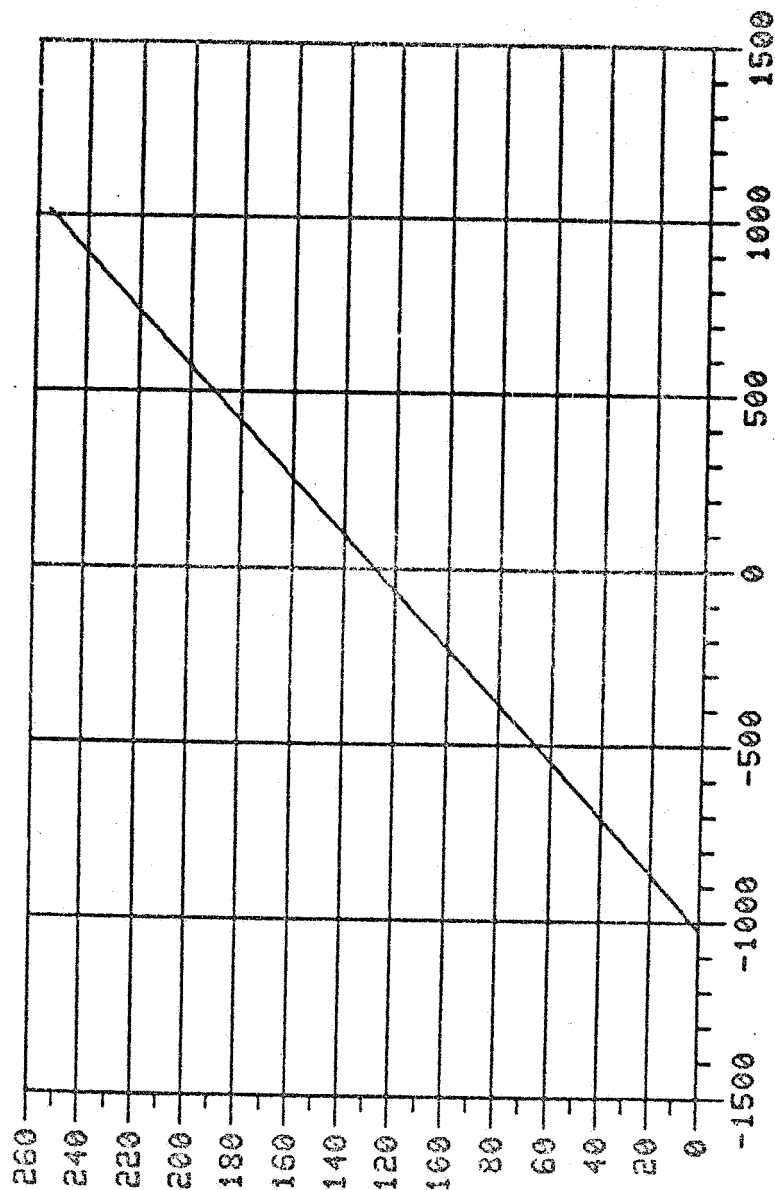


ENGINEERING UNITS - GAUSS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR ATAM2Y

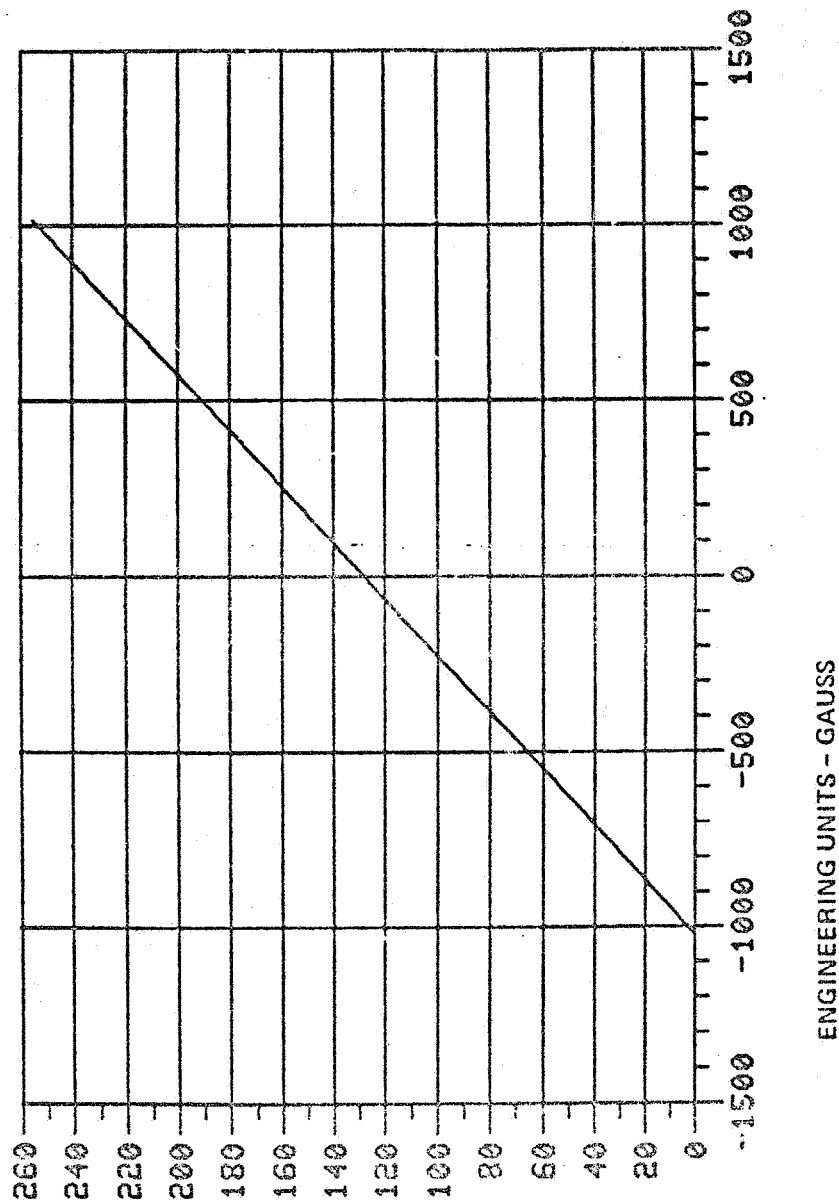


TELEMETRY COUNTS

ENGINEERING UNITS - GAUSS

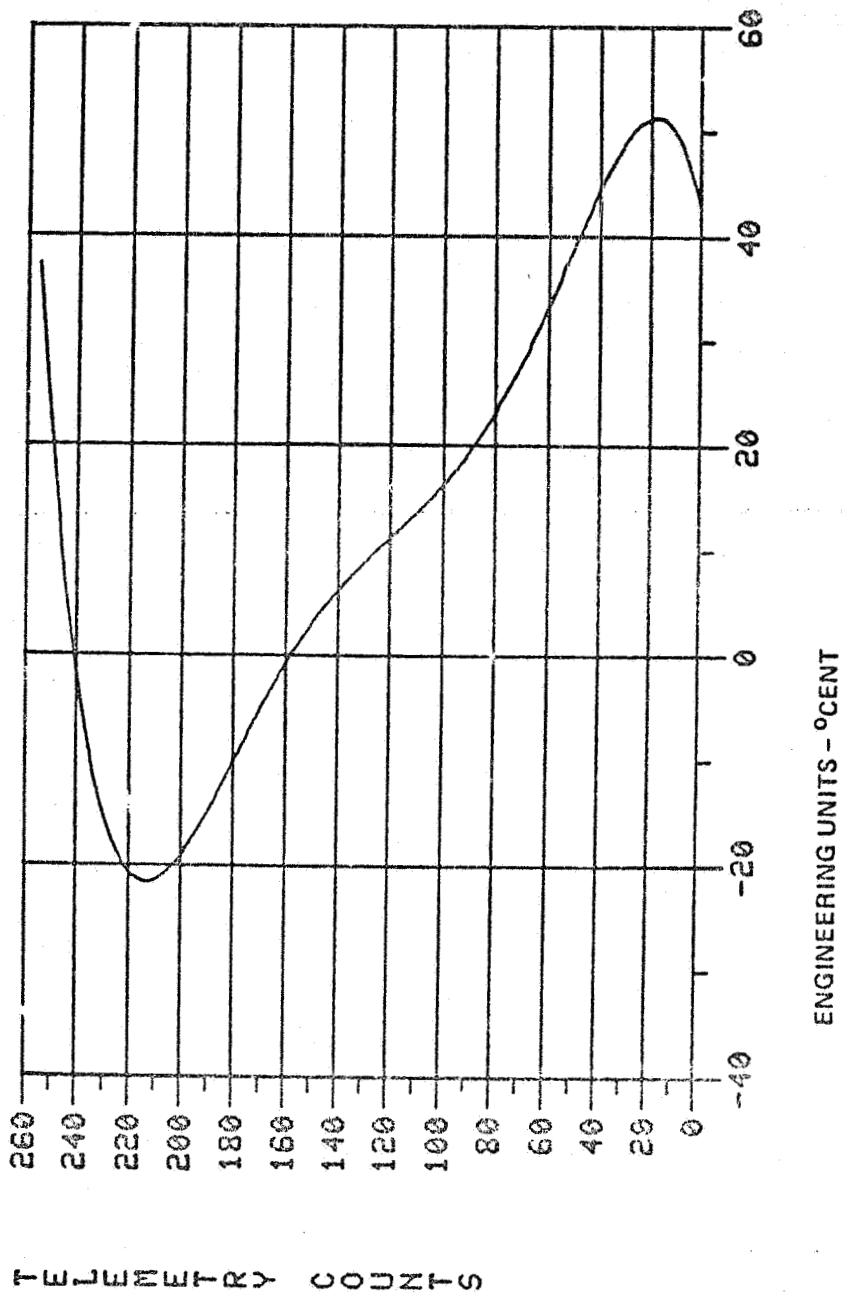
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COUNTS VS ENGINEERING UNITS FOR ATAM22



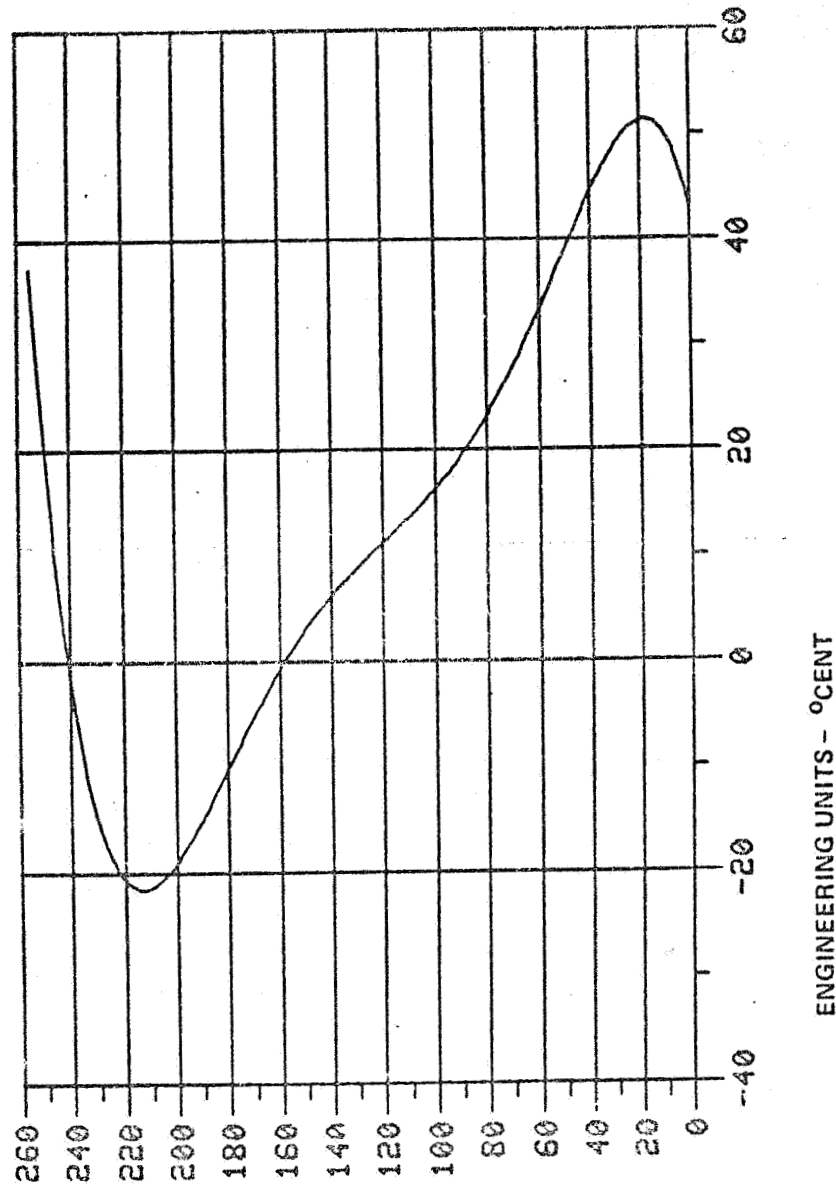
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COUNTS VS ENGINEERING UNITS FOR ATQDRELT



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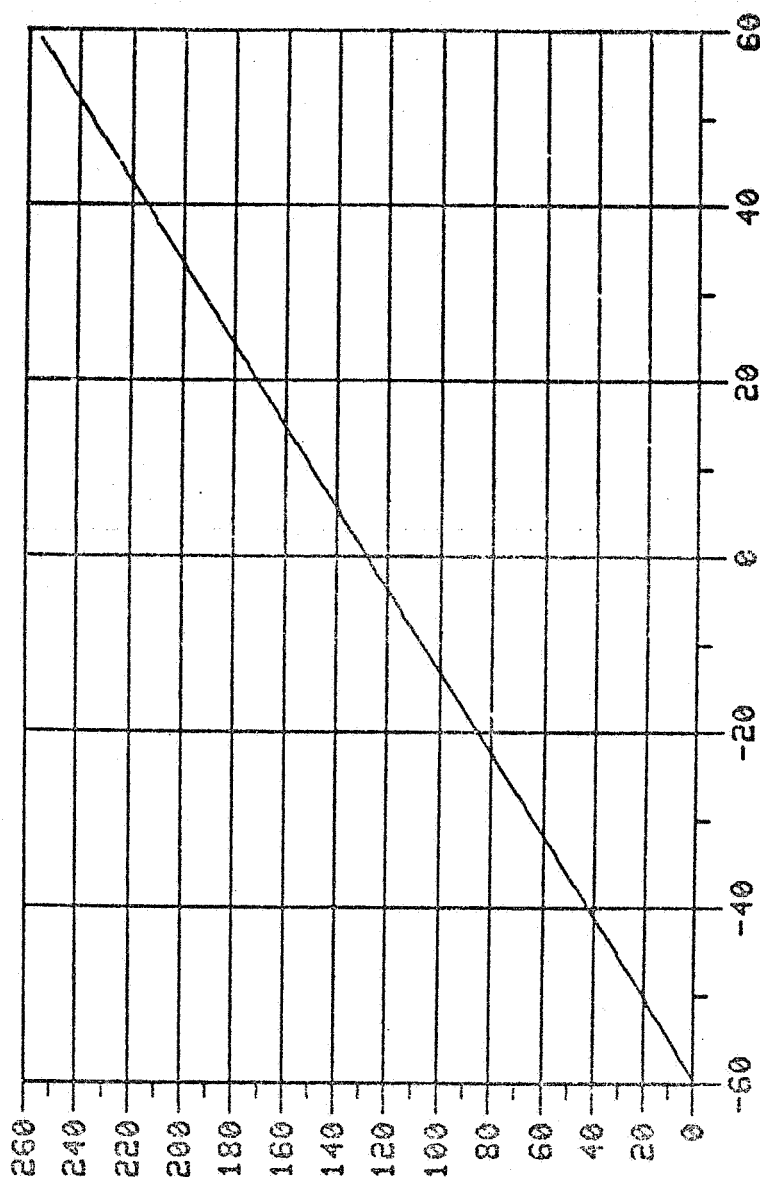
COUNTS VS ENGINEERING UNITS FOR AJHDRELT



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR AXMAGDRA

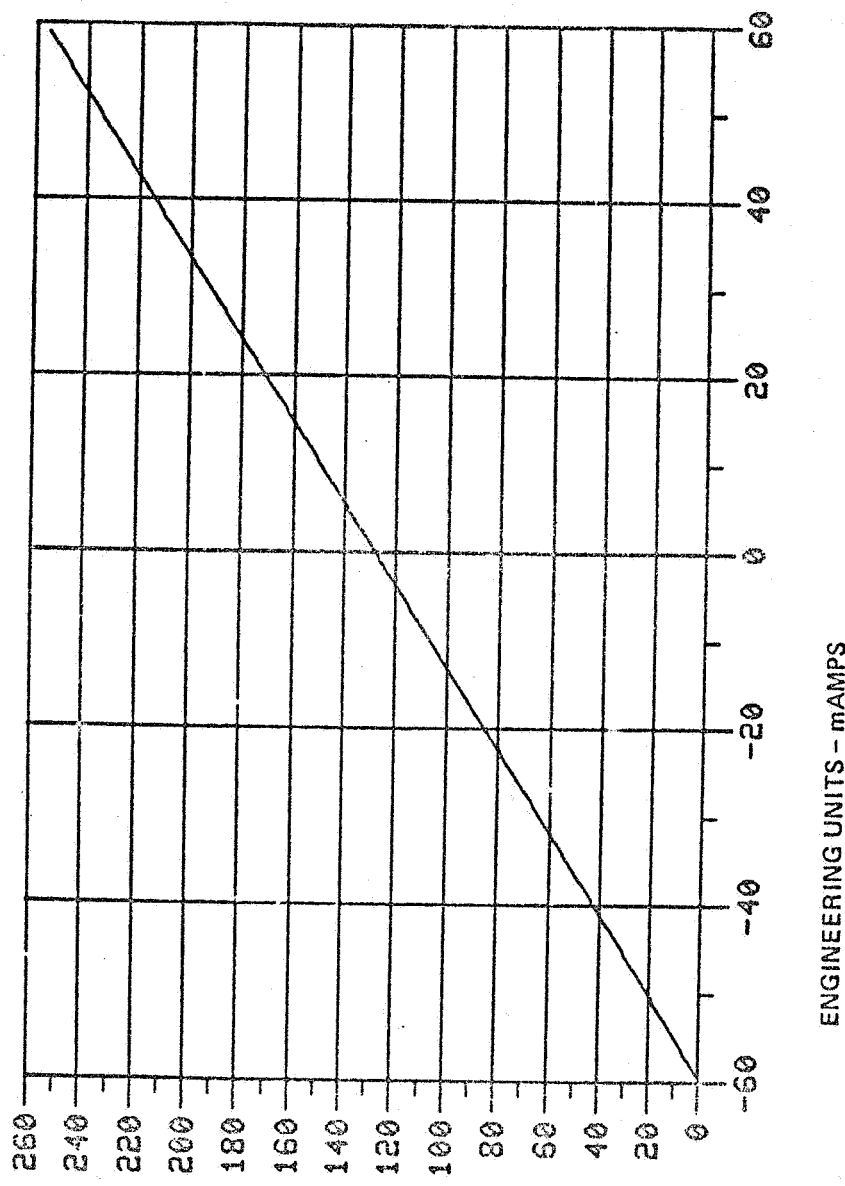


TELEMETRY COUNTS

ENGINEERING UNITS - mAMPS

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COUNTS VS ENGINEERING UNITS FOR AXMAGDRB

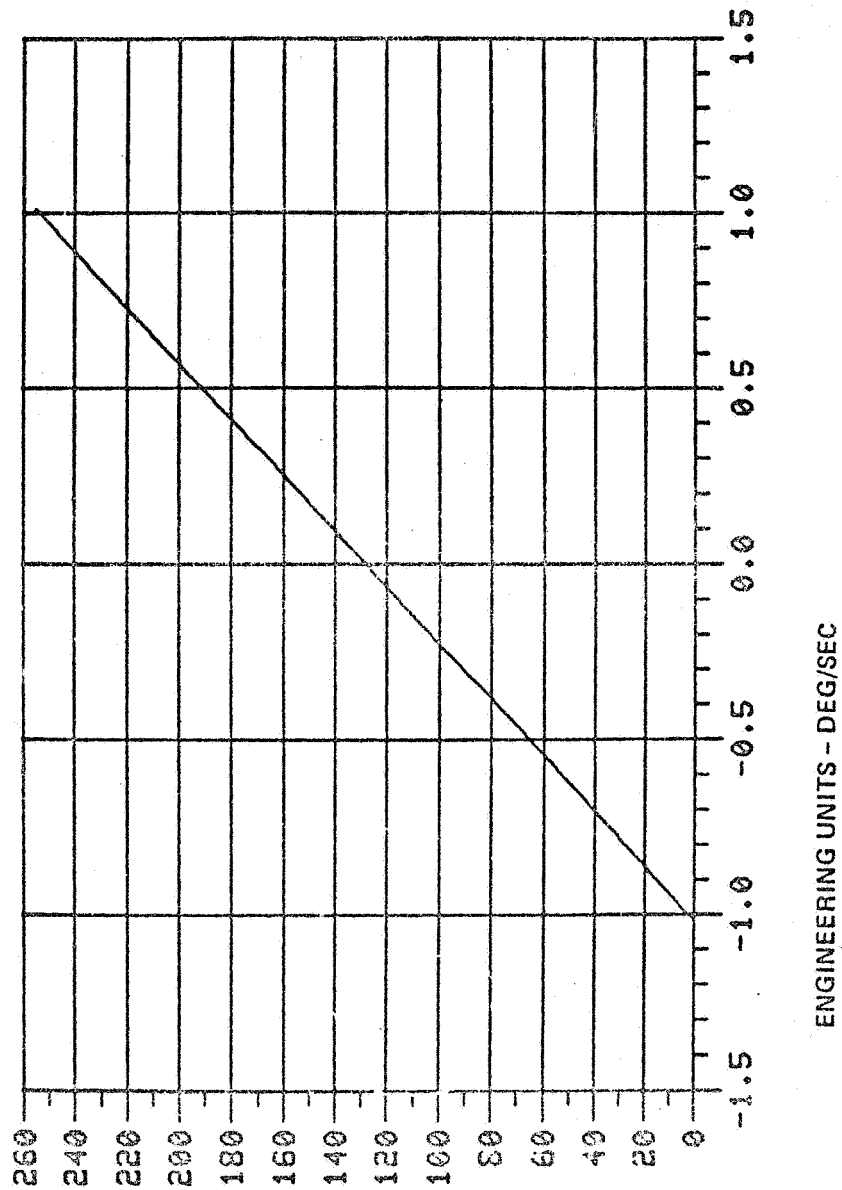


TELEMETRY COUNTS

ENGINEERING UNITS - mAMPS

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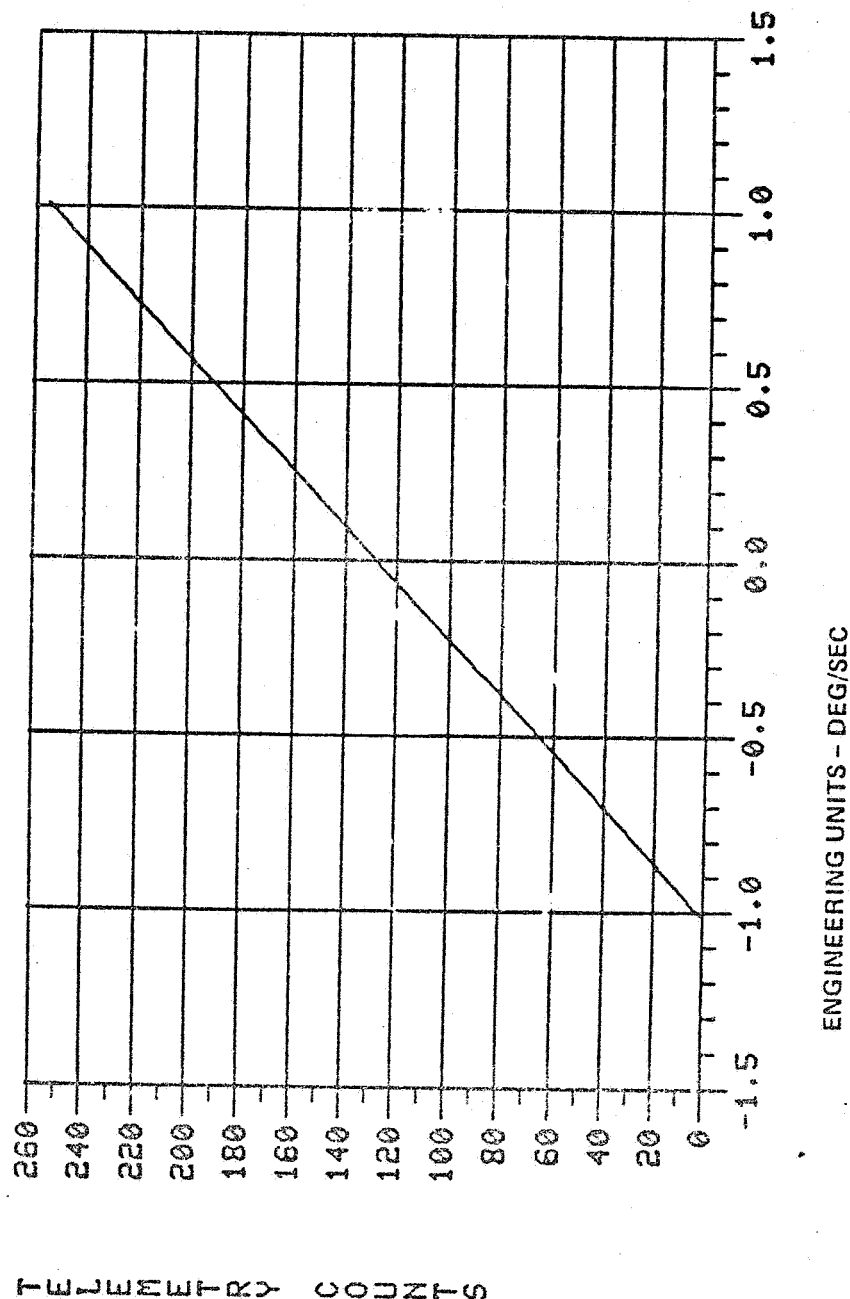
COUNTS VS ENGINEERING UNITS FOR AXRATE1



TELEMETRY COUNTS

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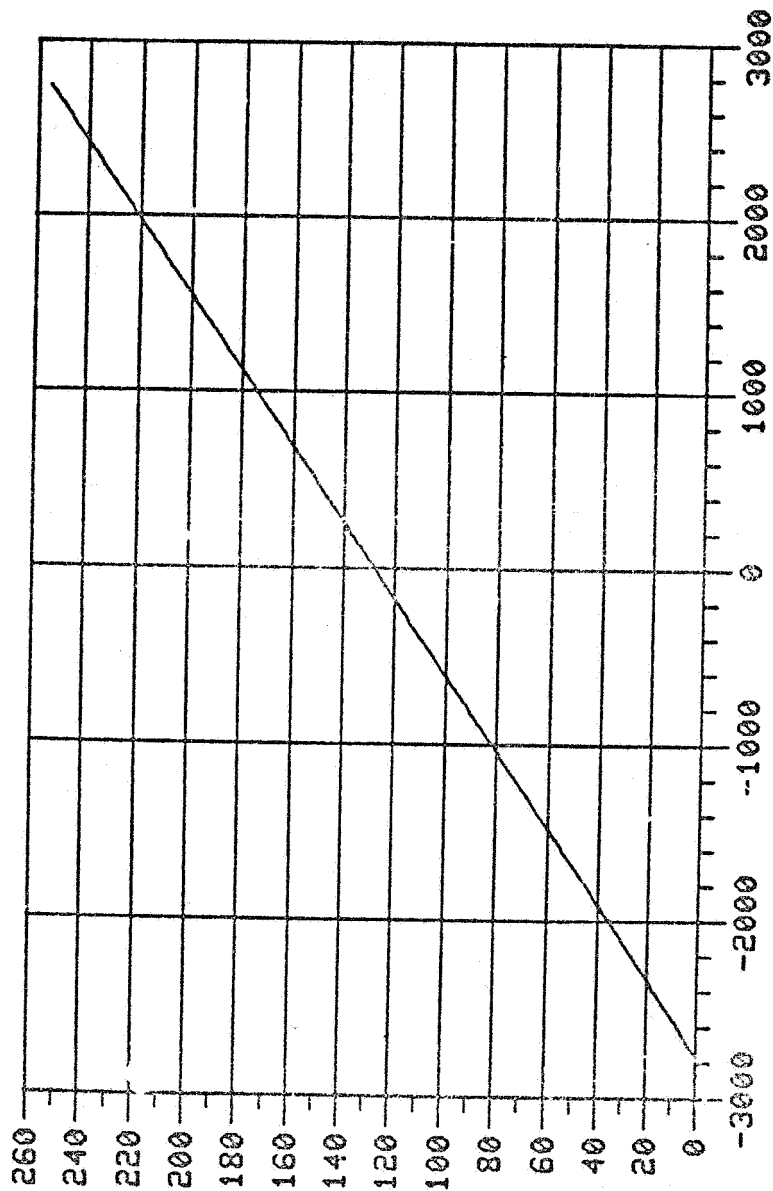
COUNTS VS ENGINEERING UNITS FOR AXRATE2



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COUNTS VS ENGINEERING UNITS FOR AXTACHA

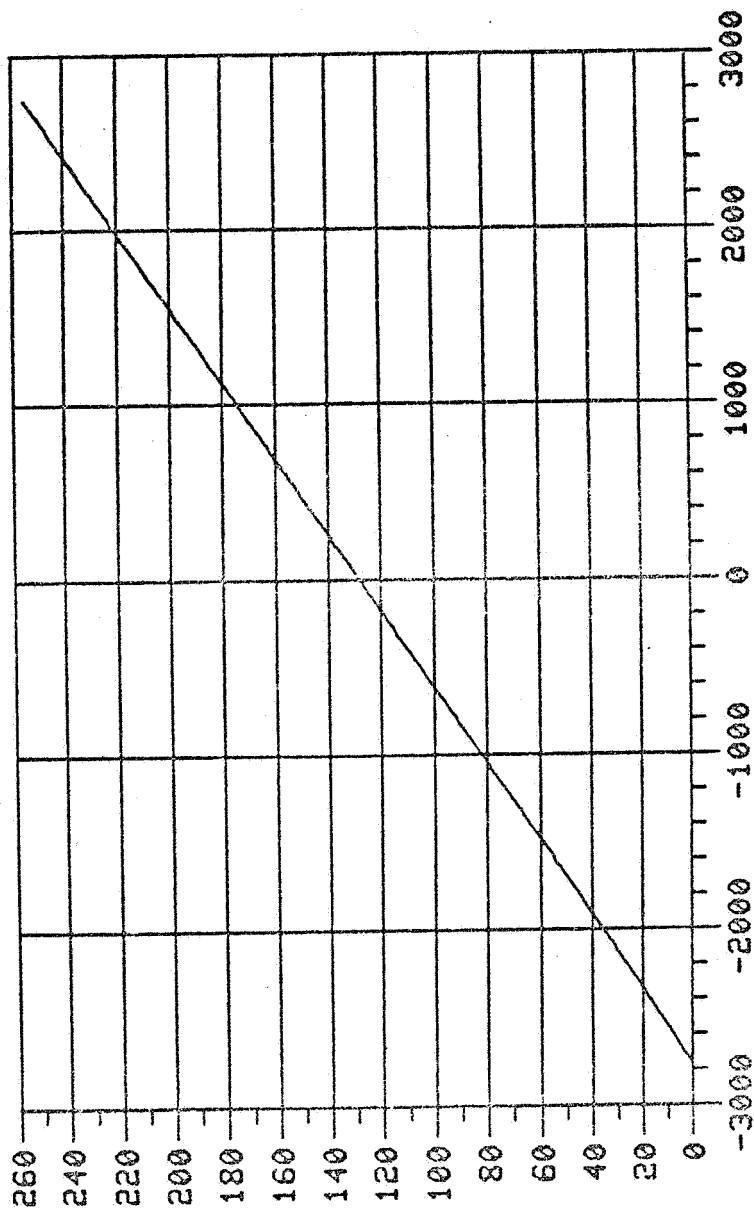


TELEMETRY COUNTS

ENGINEERING UNITS - RPM

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COUNTS VS ENGINEERING UNITS FOR AXTACHB

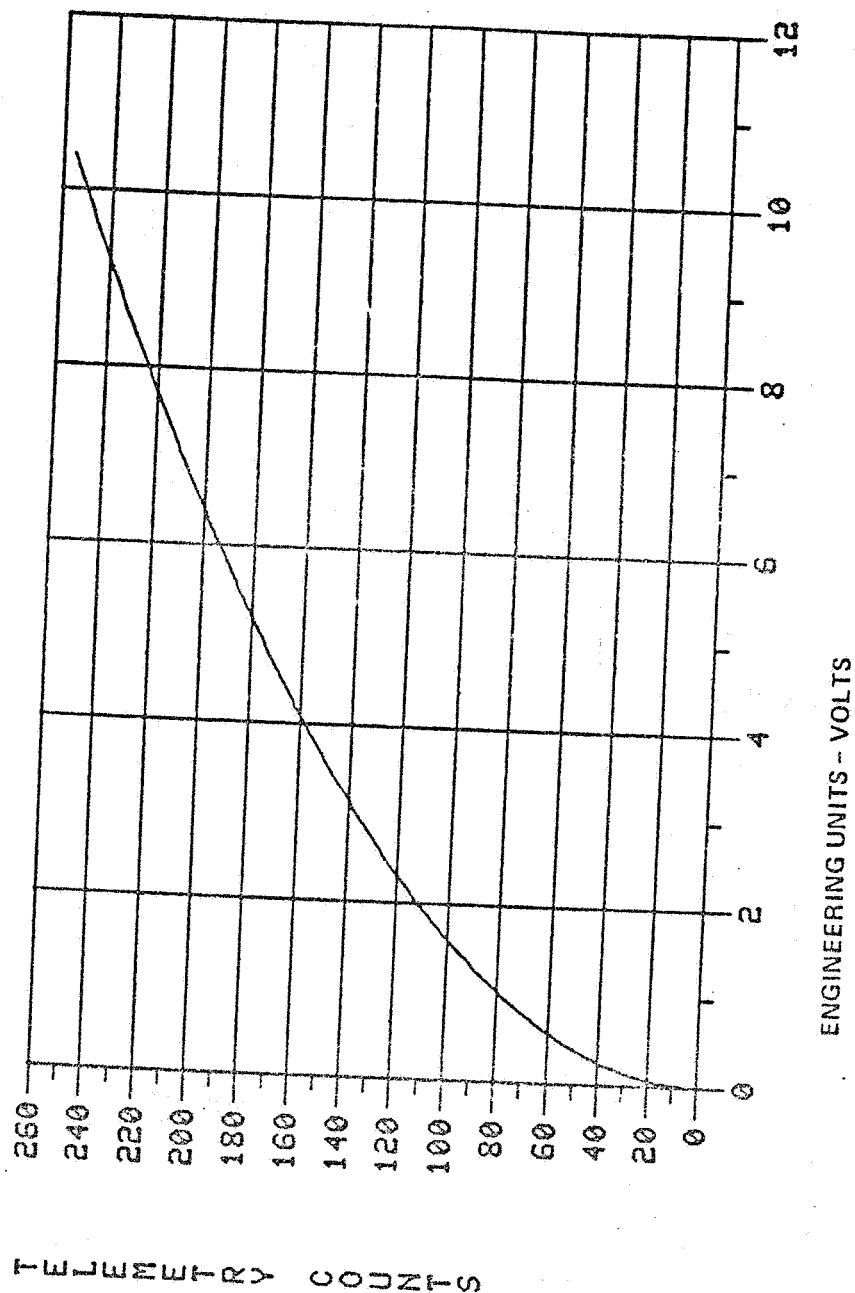


ENGINEERING UNITS - RPM

TELEMETRY COUNTS

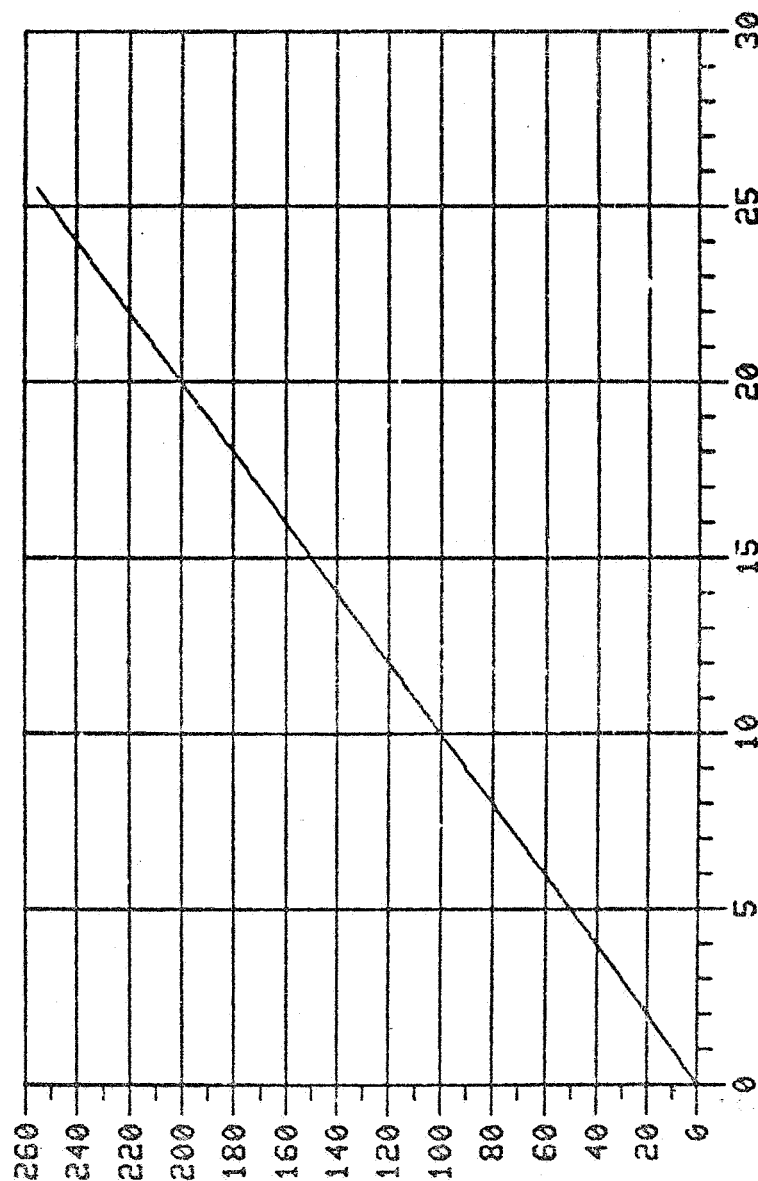
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COUNTS VS ENGINEERING UNITS FOR AXUHDRUA



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COUNTS VS ENGINEERING UNITS FOR AXUHDRUB

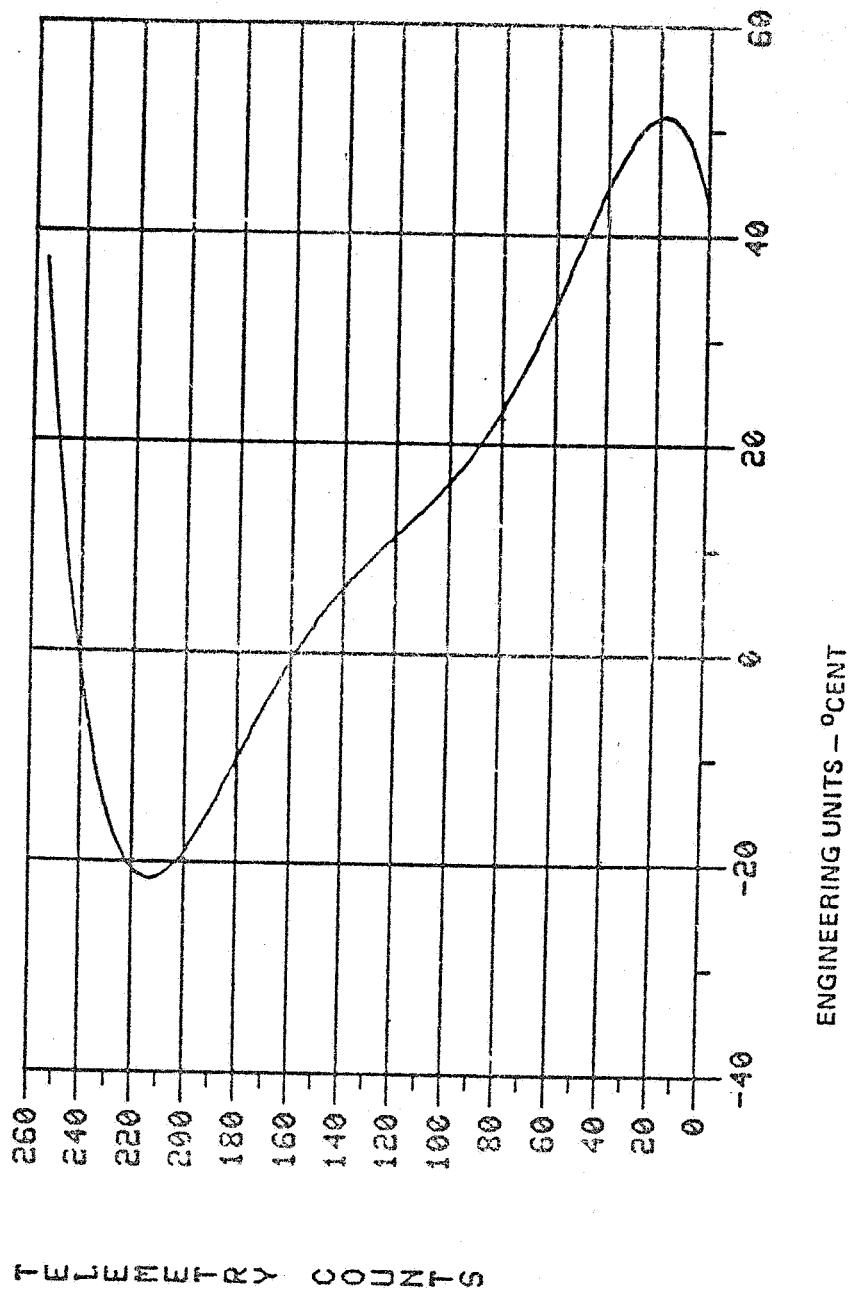


TELEMETRY COUNTS

ENGINEERING UNITS - VOLTS

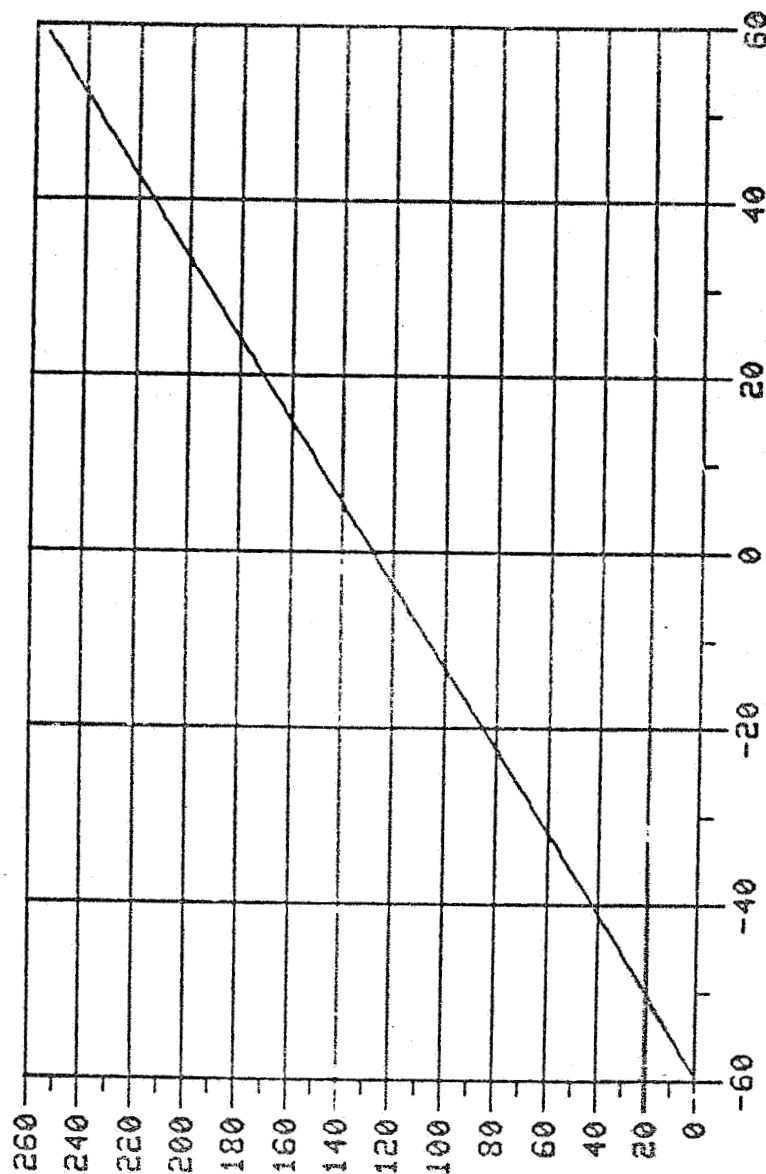
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COUNTS VS ENGINEERING UNITS FOR AXJHLTMP



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COUNTS VS ENGINEERING UNITS FOR AYMAGDRA

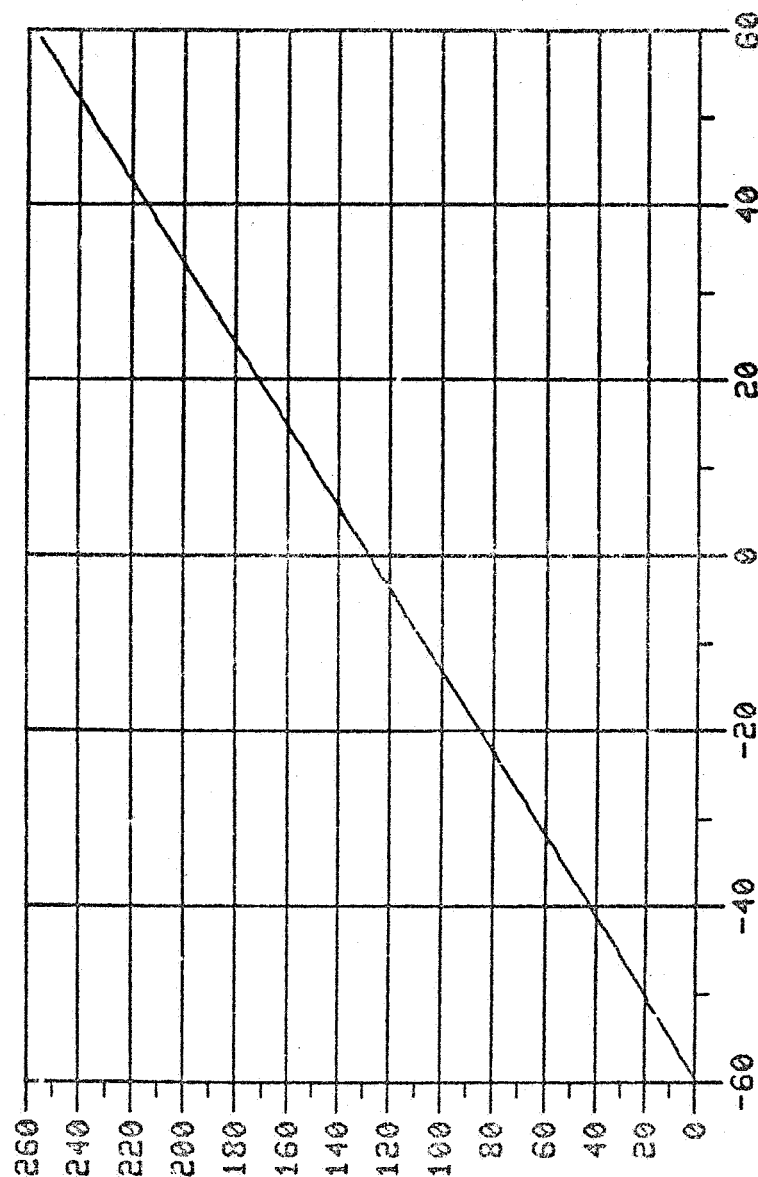


ENGINEERING UNITS - mAMPS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR AYMAGDRB

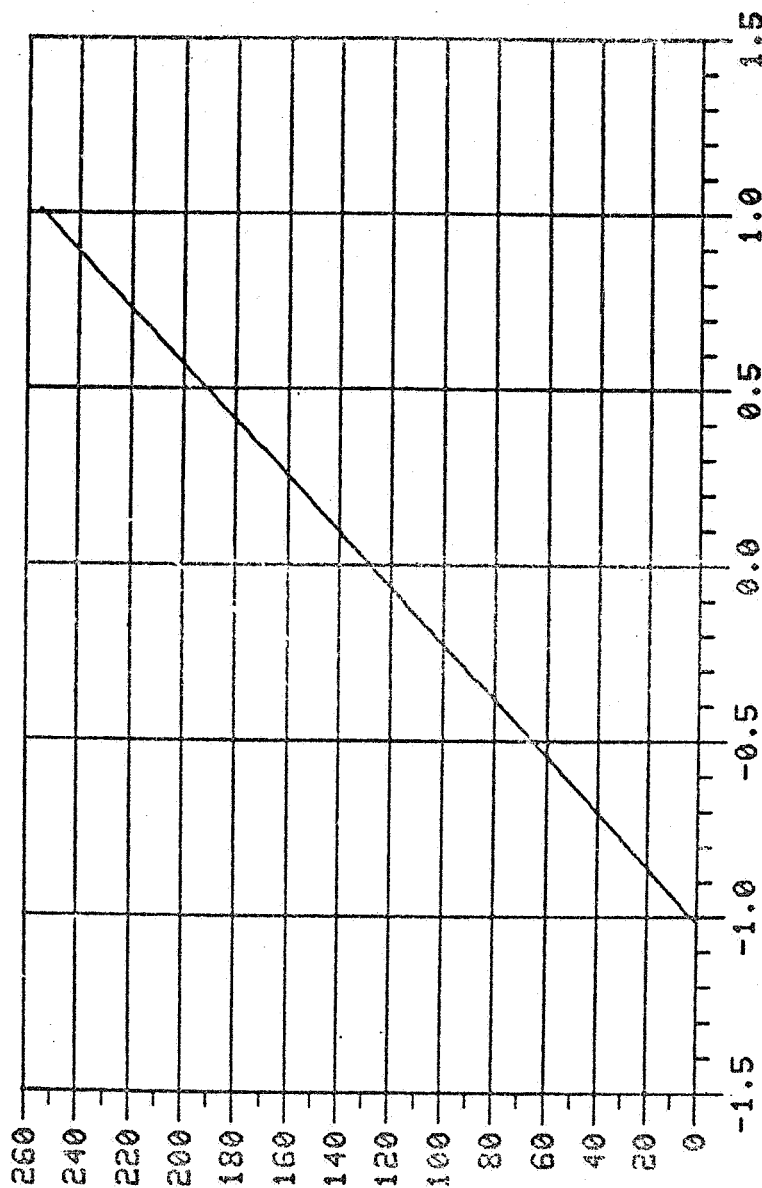


ENGINEERING UNITS - mAMPS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR AYRATE1

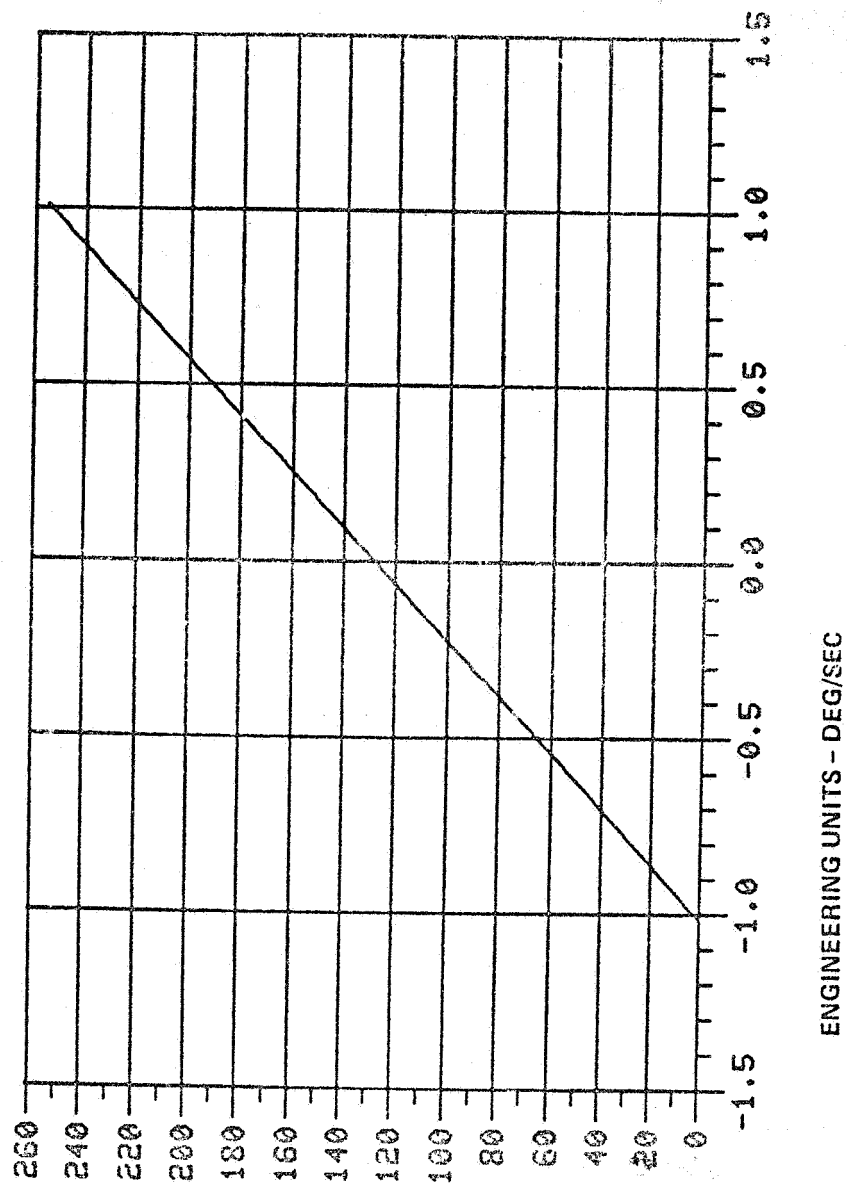


ENGINEERING UNITS - DEG/SEC

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR AYRATE2

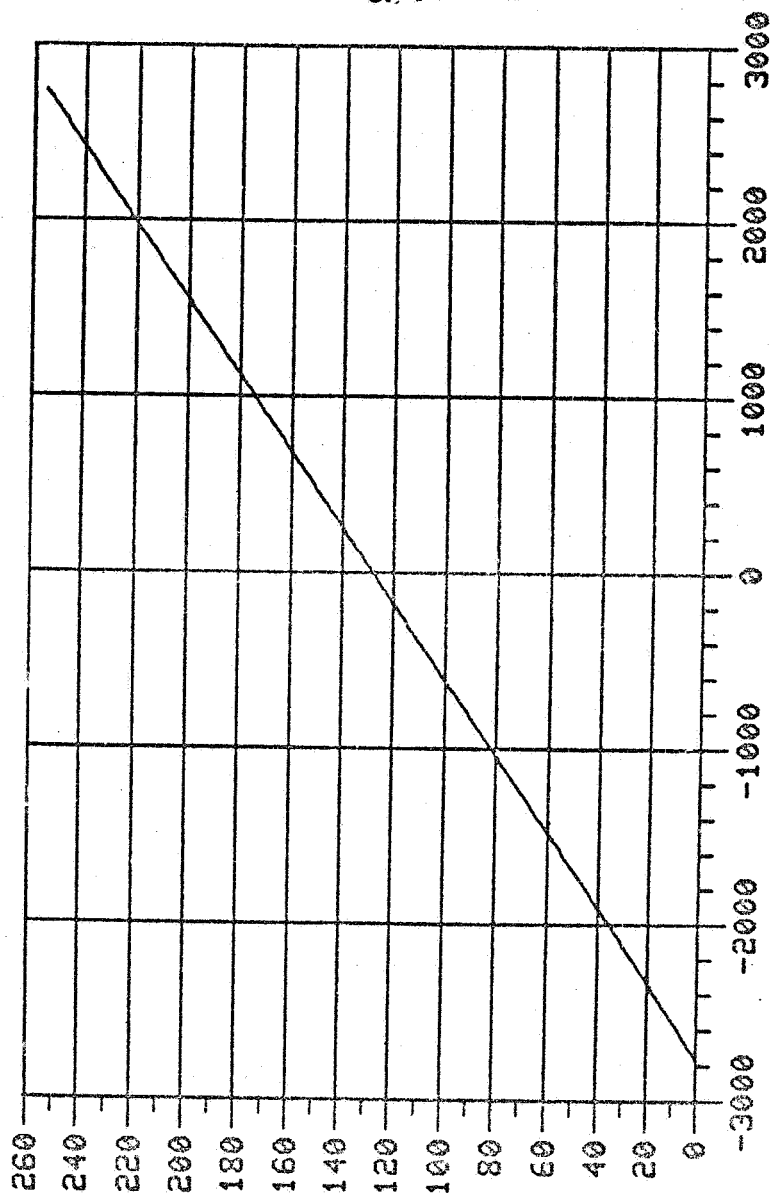


TELEMETRY COUNTS

ENGINEERING UNITS - DEG/SEC

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COUNTS VS ENGINEERING UNITS FOR AYTACHA

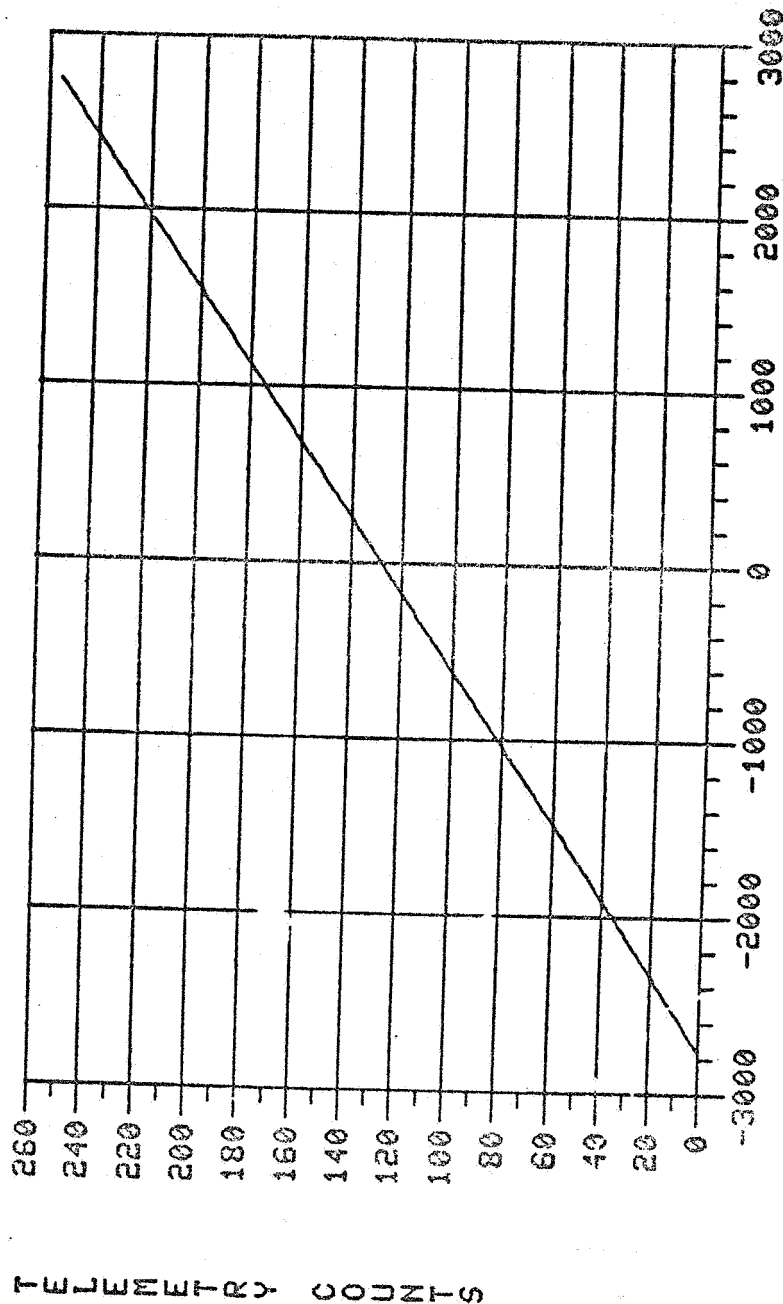


TELEMETRY COUNTS

ENGINEERING UNITS - RPM

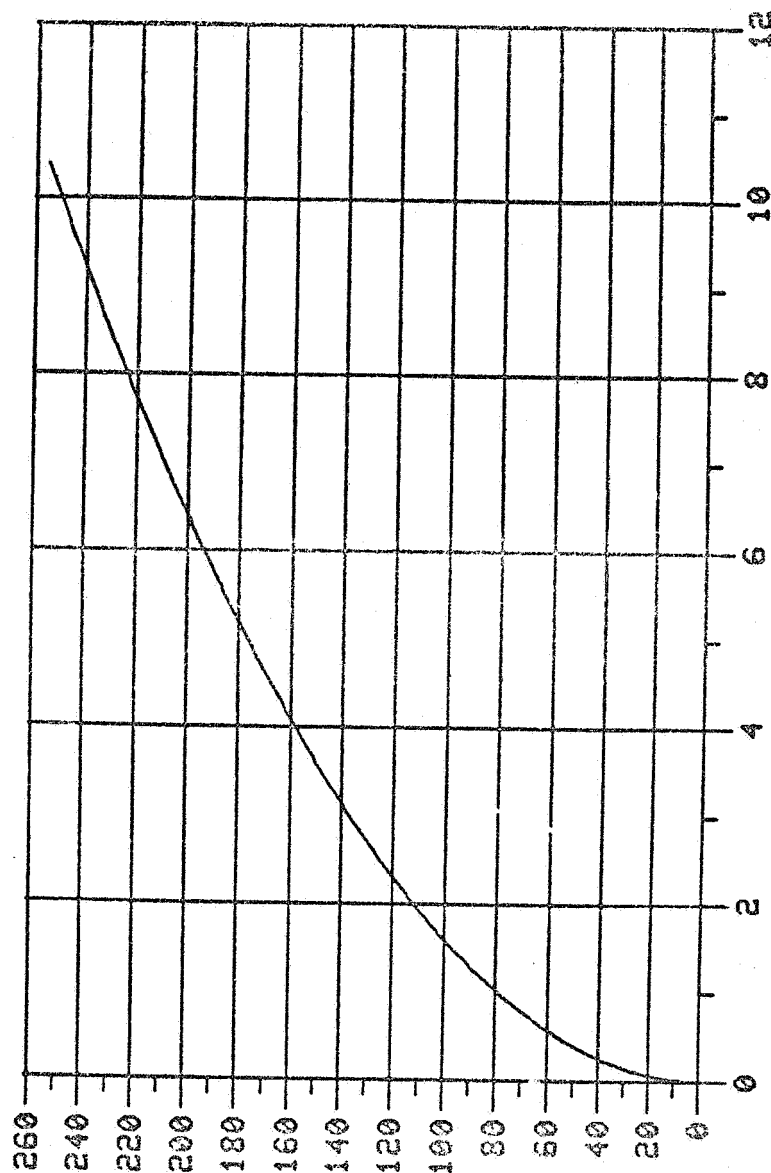
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COUNTS VS ENGINEERING UNITS FOR AYTACHB



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COUNTS VS ENGINEERING UNITS FOR AYUHDRA



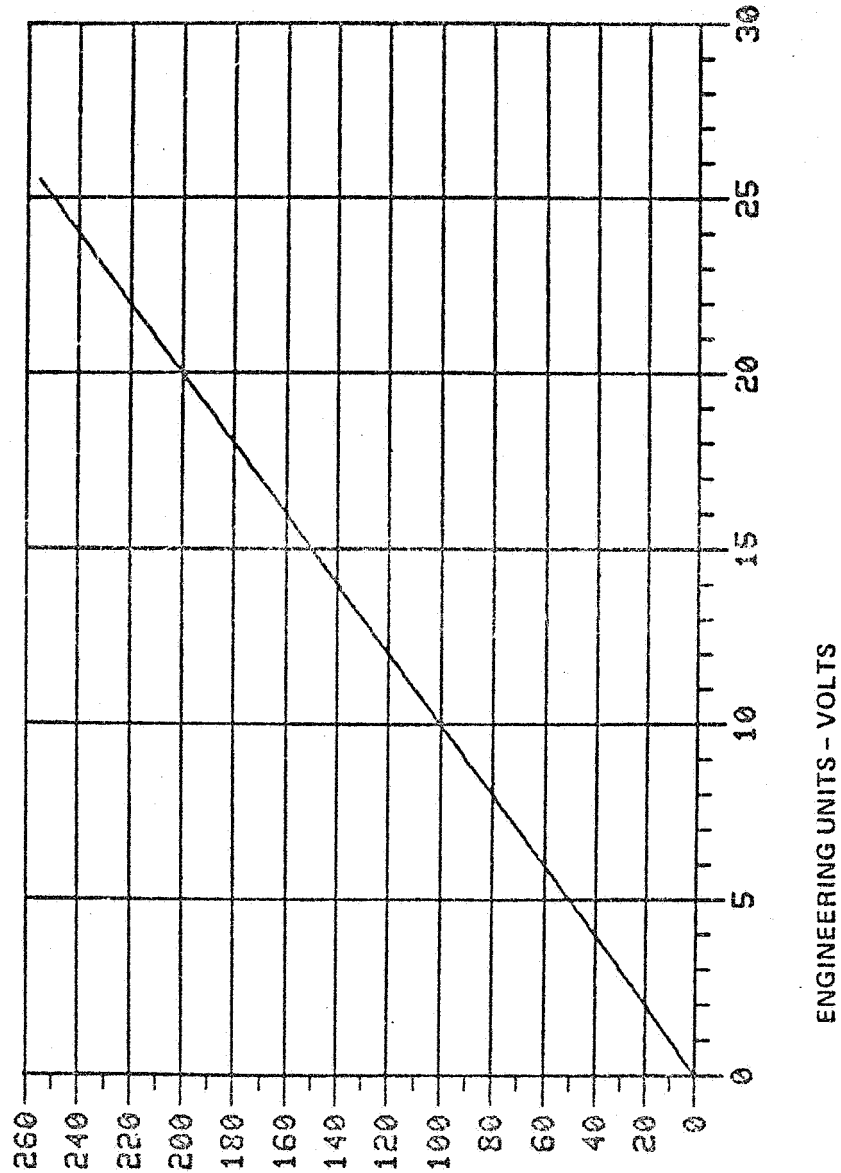
ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR AYUHDRUB

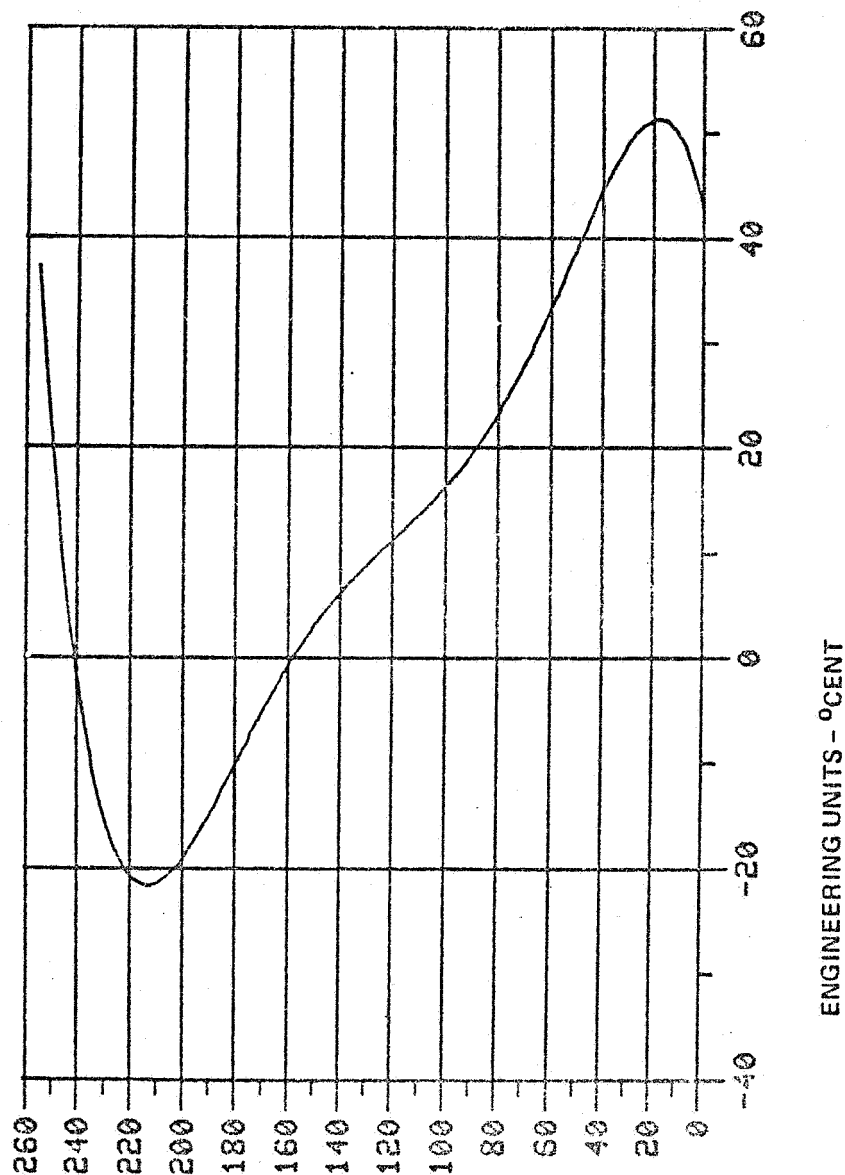


TELEMETRY COUNTS

ENGINEERING UNITS - VOLTS

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COUNTS VS ENGINEERING UNITS FOR AYUHLTMP

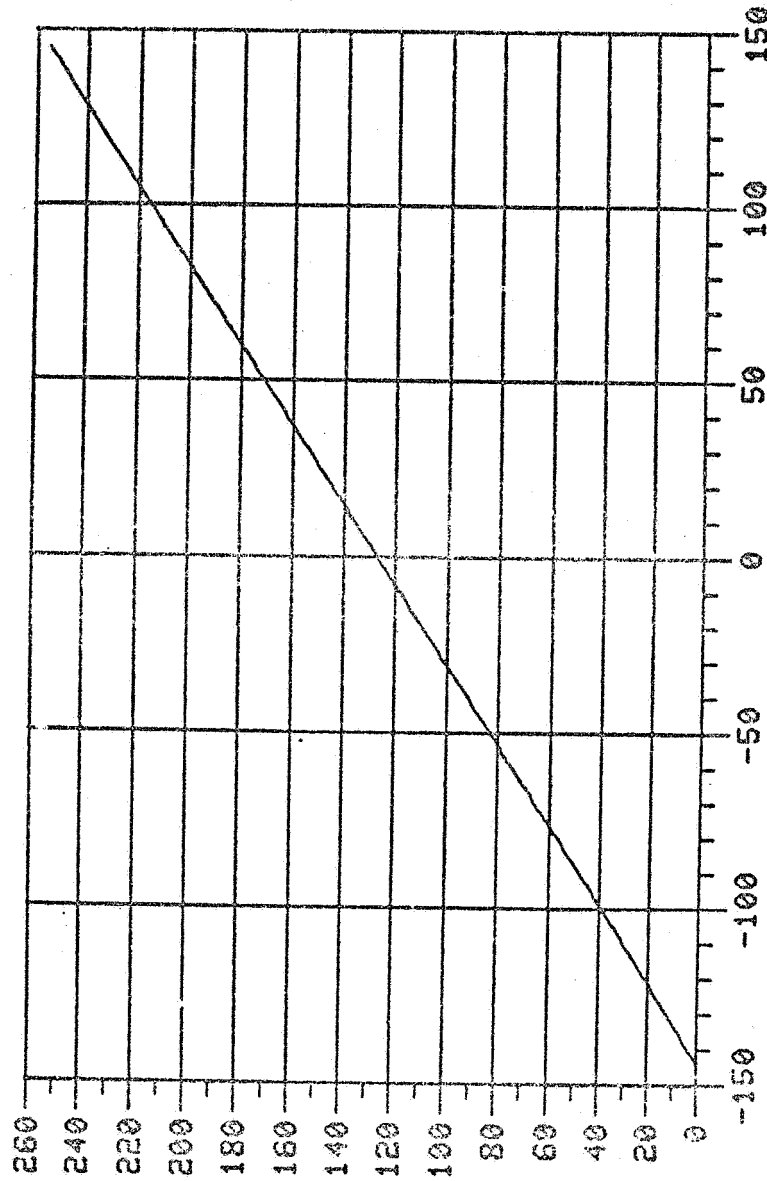


TEMPERATURE COUNTS

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Appendix A
June 1982

COUNTS VS ENGINEERING UNITS FOR AZMAGDRA

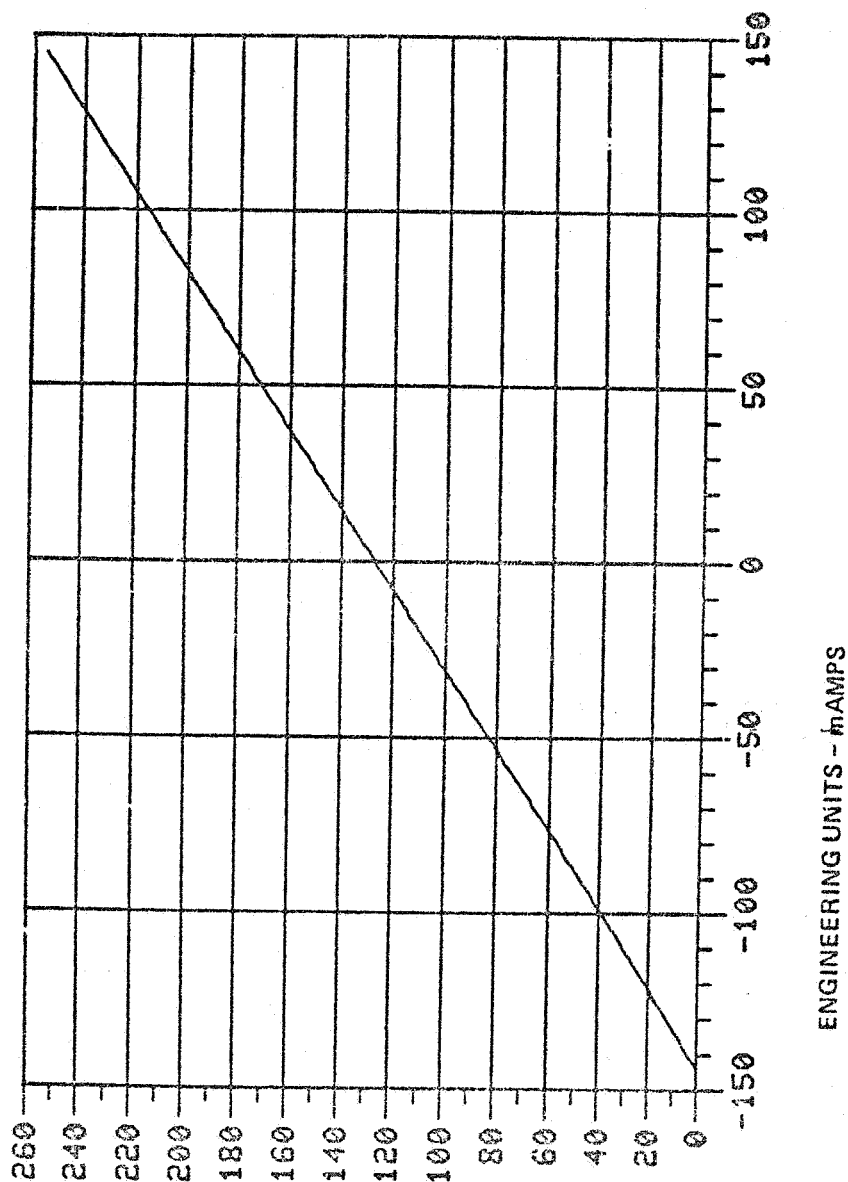


TELEMETRY COUNTS

ENGINEERING UNITS - mAMPS

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COUNTS VS ENGINEERING UNITS FOR AZMAGDRB

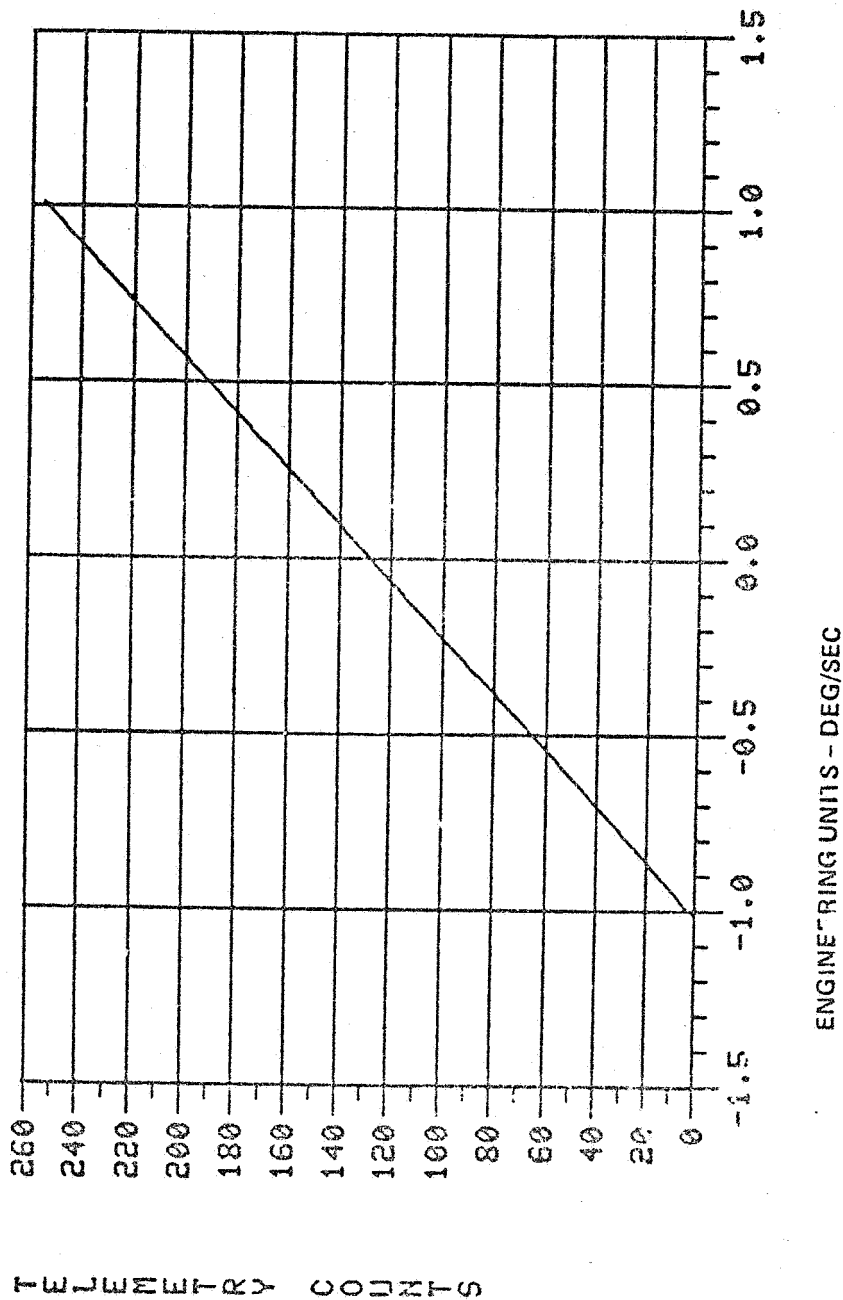


TELEMETRY COUNTS

ENGINEERING UNITS - mAMPS

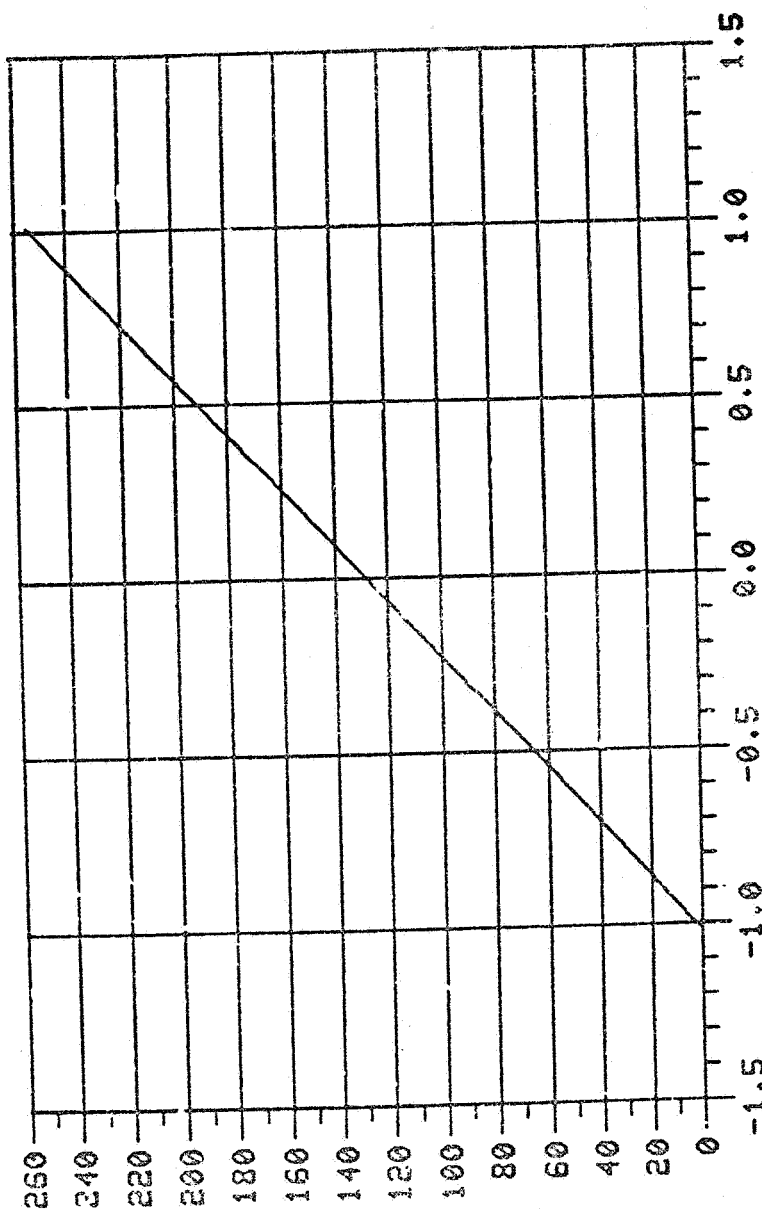
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COUNTS VS ENGINEERING UNITS FOR AZRATE1



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COUNTS VS ENGINEERING UNITS FOR AZRATE2



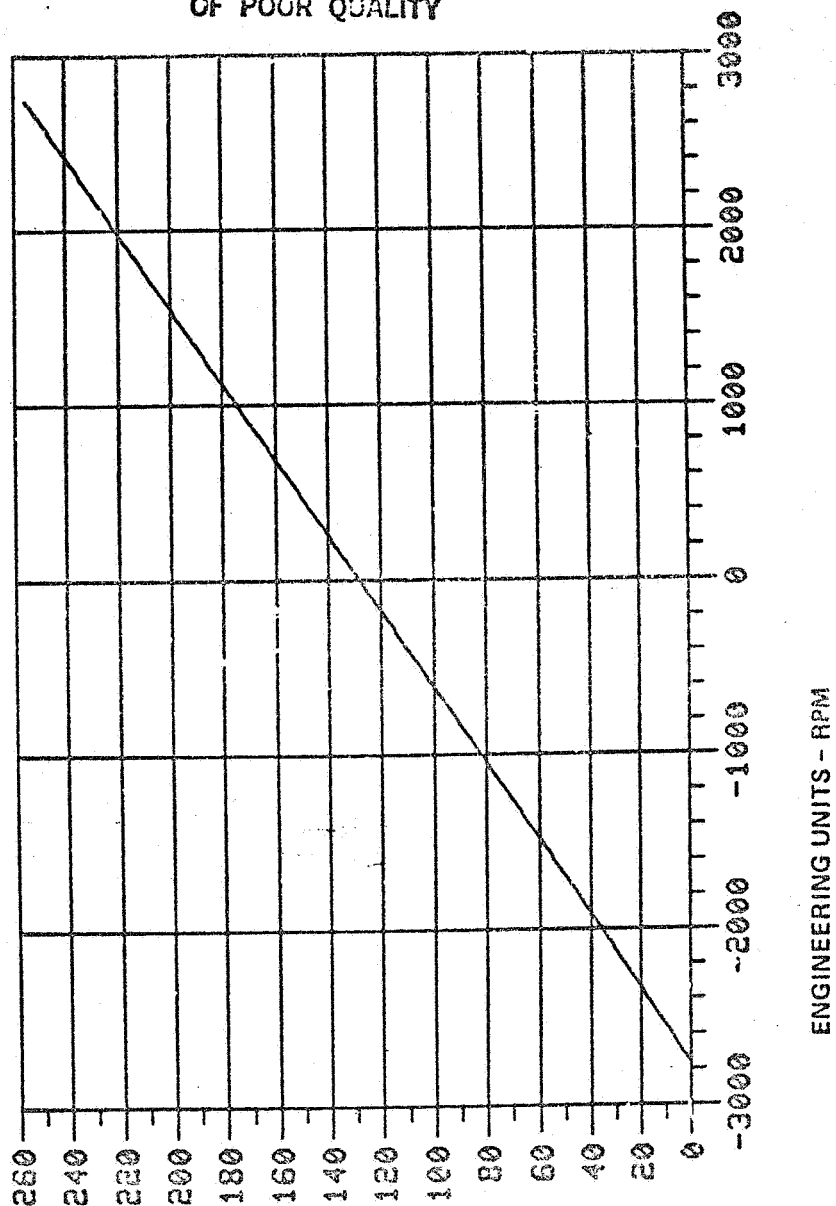
ENGINEERING UNITS - DEG/SEC

FEJWEETRY COUNTS

C-2

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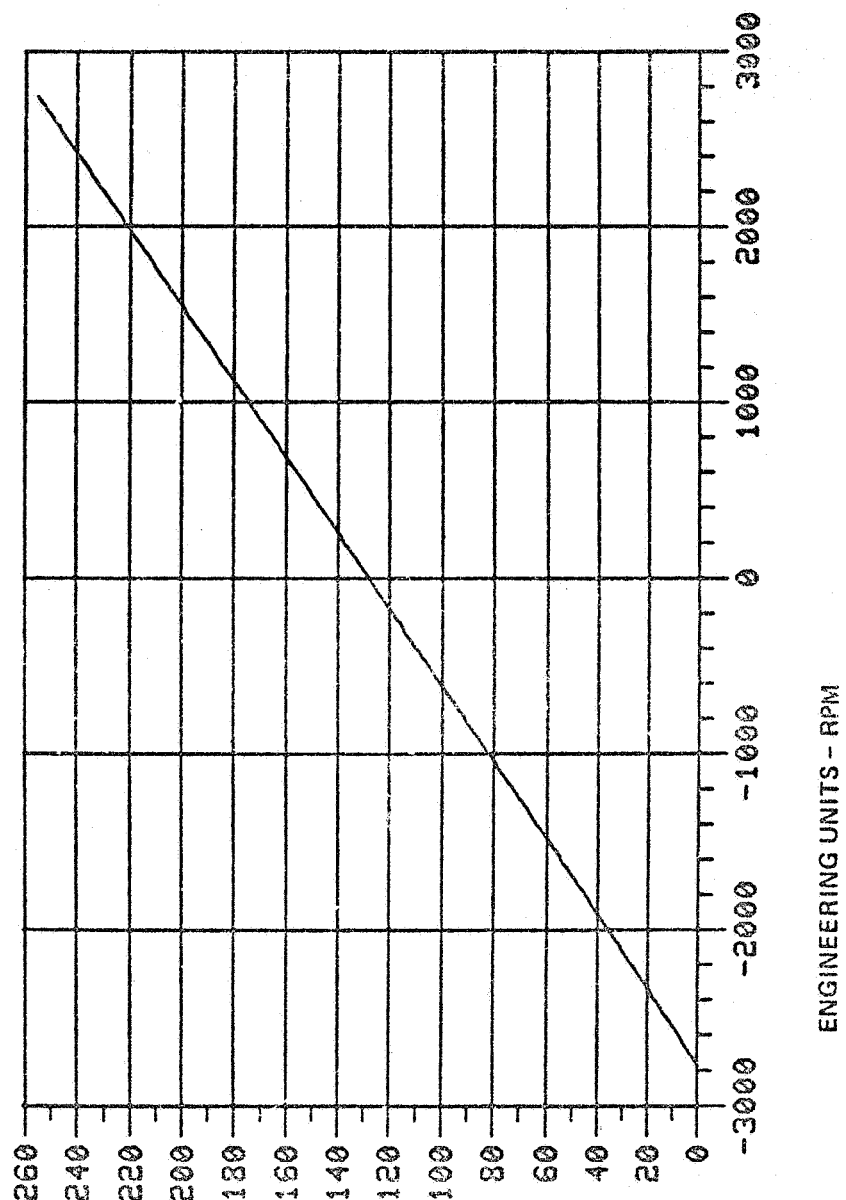
COUNTS VS ENGINEERING UNITS FOR AZTACHA



ENGINEERING UNITS - RPM

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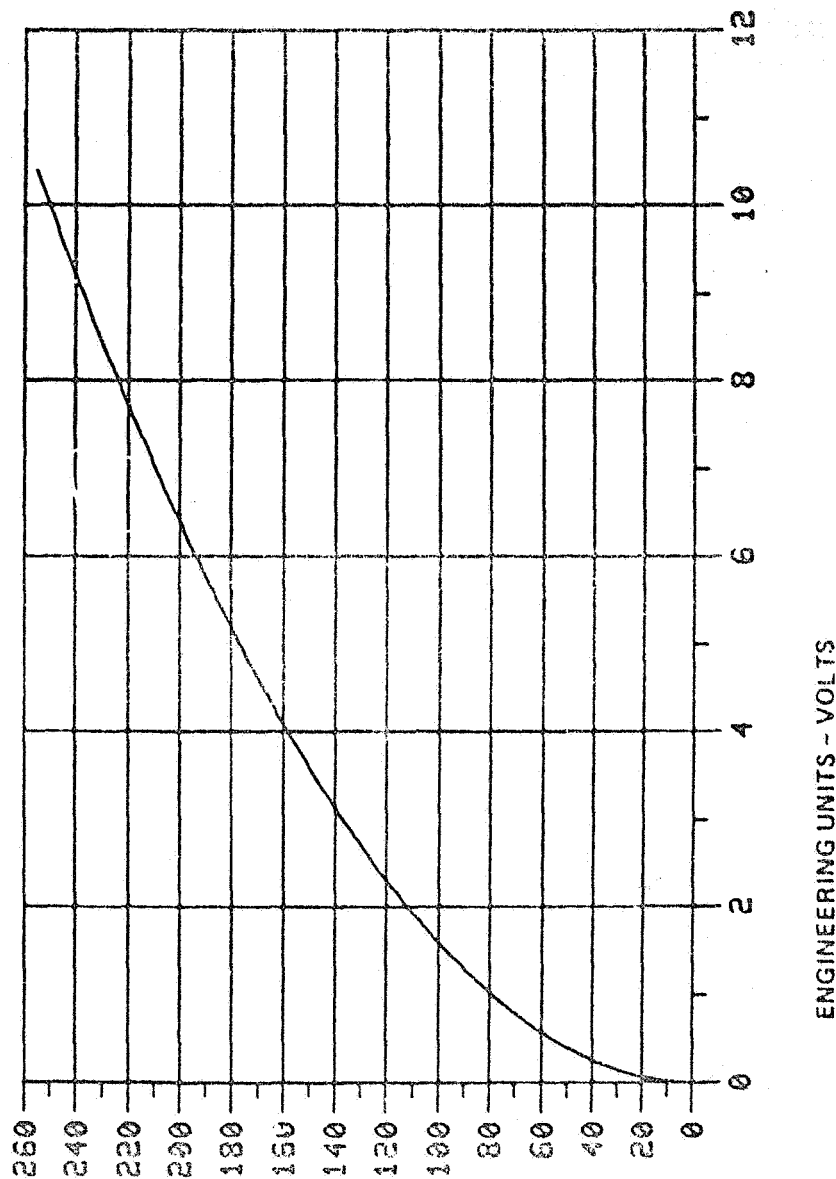
COUNTS VS ENGINEERING UNITS FOR AZTACHB



REVERSE COUNTS

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COUNTS VS ENGINEERING UNITS FOR AZUHDRUA

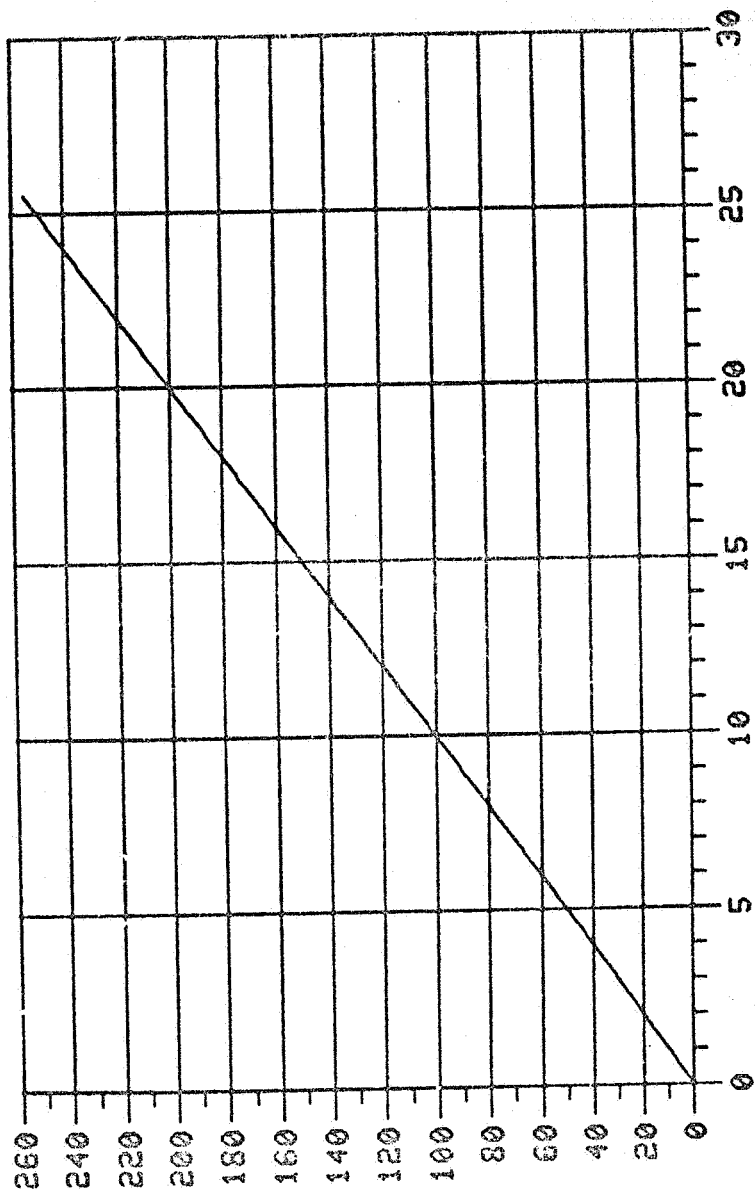


TELEMETRY COUNTS

0.3 10

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COUNTS VS ENGINEERING UNITS FOR AZUHDRUB



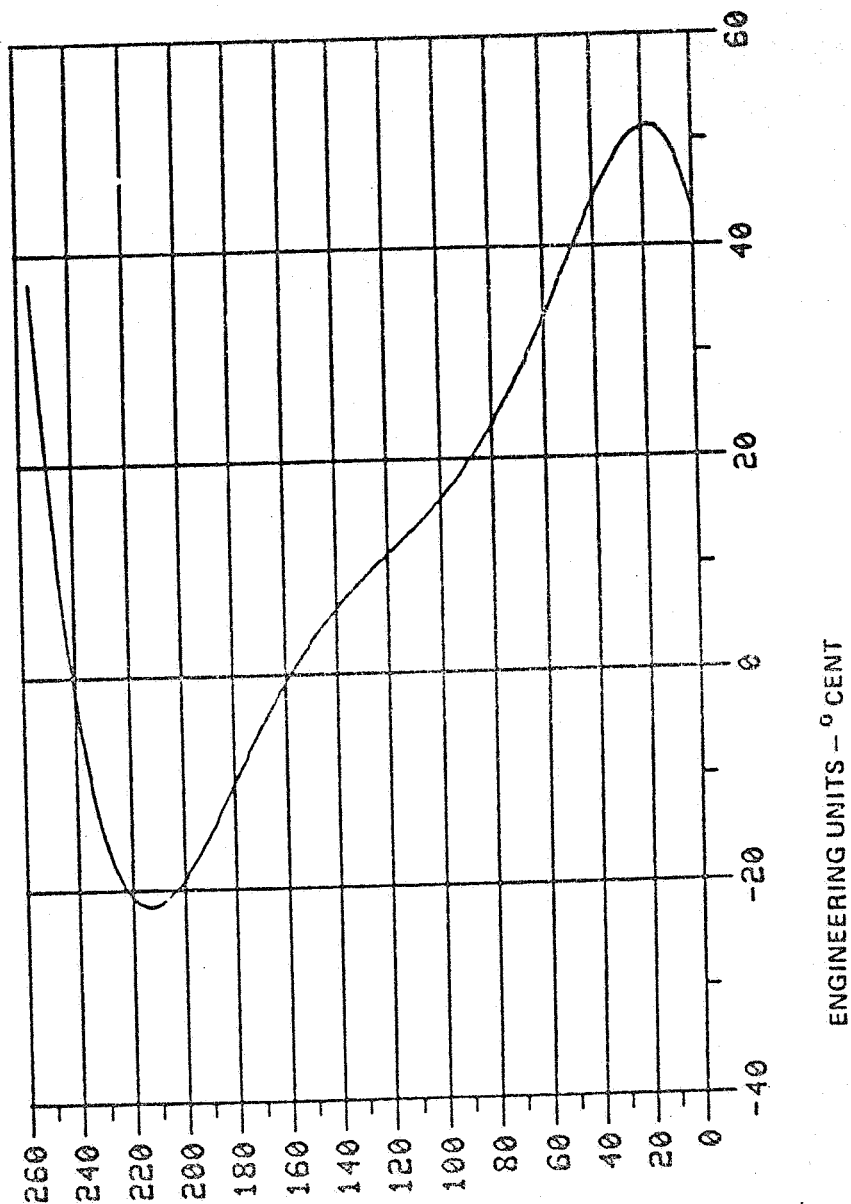
ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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June 1982

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COUNTS VS ENGINEERING UNITS FOR AZUHLTMP



TELEMETRY COUNTS

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ESAM CONV. DEF.

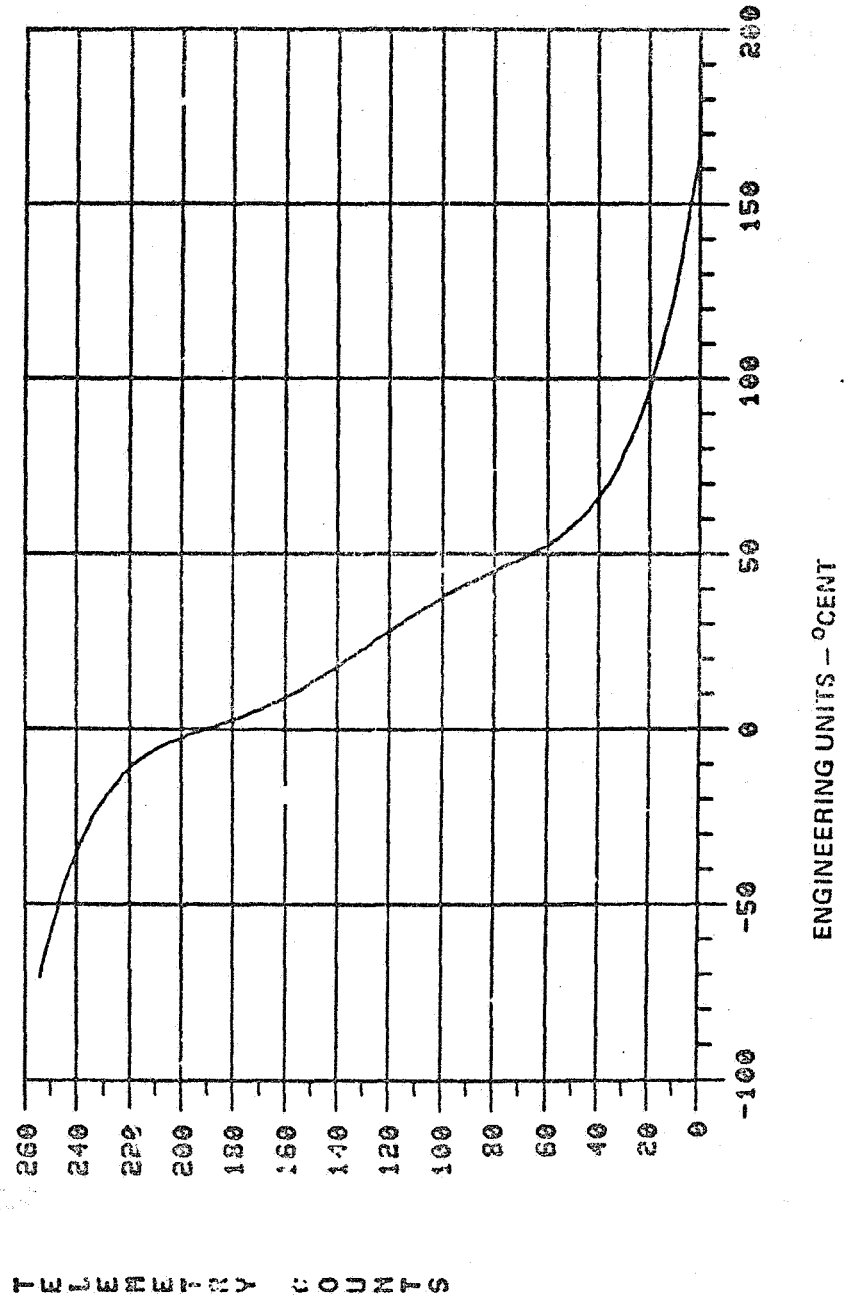
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;
;*****
;
; ESAM POINT DEF.
POINT EES1BTMP ; ESA-1 BOLOMETER TEMPERATURE in deg. centigrade
COEFF EES1BTMP , 0.1644E+3,-0.4777E+1,0.8178E-1,-0.7119E-3,0.2888E-5,-0.4401E-8
POINT EES1SEN ; ESA-1 SENSOR STATUS in
COEFF EES1SEN , 0,.02
POINT EES1SIG ; ESA-1 SIGNAL STATUS in
COEFF EES1SIG , 0,.02
POINT EES1TMP ; ESA-1 TEMPERATURE in deg. centigrade
COEFF EES1TMP , 0.1644E+3,-0.4777E+1,0.8178E-1,-0.7119E-3,0.2888E-5,-0.4401E-8
POINT EES1XC ; ESA-1 ROLL COARSE ERROR in
COEFF EES1XC , -.50E+2,0.40E+00
POINT EES1XF ; ESA-1 ROLL FINE ERROR in
COEFF EES1XF , -5.0,0.040
POINT EES1YC ; ESA-1 PITCH COARSE ERROR in
COEFF EES1YC , -.3766E+2,.1536E+0,.1264E-2,.2489E-5,-.2973E-7,.3414E-10
POINT EES1YF ; ESA-1 PITCH FINE ERROR in
COEFF EES1YF , -5.0,0.040
POINT EES2BTMP ; ESA-2 BOLOMETER TEMPERATURE in deg. centigrade
COEFF EES2BTMP , 0.1644E+3,-0.4777E+1,0.8178E-1,-0.7119E-3,0.2888E-5,-0.4401E-8
POINT EES2SEN ; ESA-2 SENSOR STATUS in
COEFF EES2SEN , 0,.02
POINT EES2SIG ; ESA-2 SIGNAL STATUS in
COEFF EES2SIG , 0,.02
POINT EES2TMP ; ESA-2 TEMPERATURE in deg. centigrade
COEFF EES2TMP , 0.1644E+3,-0.4777E+1,0.8178E-1,-0.7119E-3,0.2888E-5,-0.4401E-8
POINT EES2XC ; ESA-2 ROLL COARSE ERROR in
COEFF EES2XC , -.3766E+2,.1536E+0,.1264E-2,.2489E-5,-.2973E-7,.3414E-10
POINT EES2XF ; ESA-2 ROLL FINE ERROR in
COEFF EES2XF , -5.0,0.040
POINT EES2YC ; ESA-2 PITCH COARSE ERROR in
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POINT EES2YF ; ESA-2 PITCH FINE ERROR in
COEFF EES2YF , -5.0,0.040

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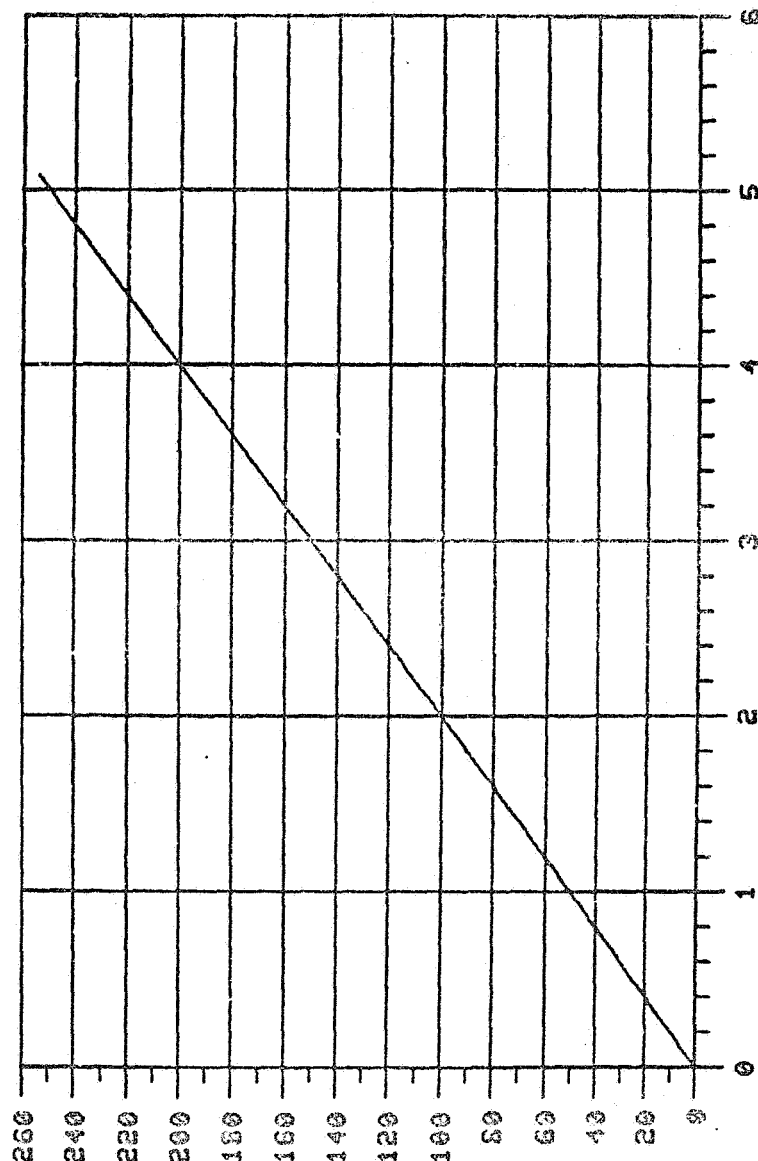
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COUNTS VS ENGINEERING UNITS FOR EES1BTMP



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COUNTS VS ENGINEERING UNITS FOR EESISEN

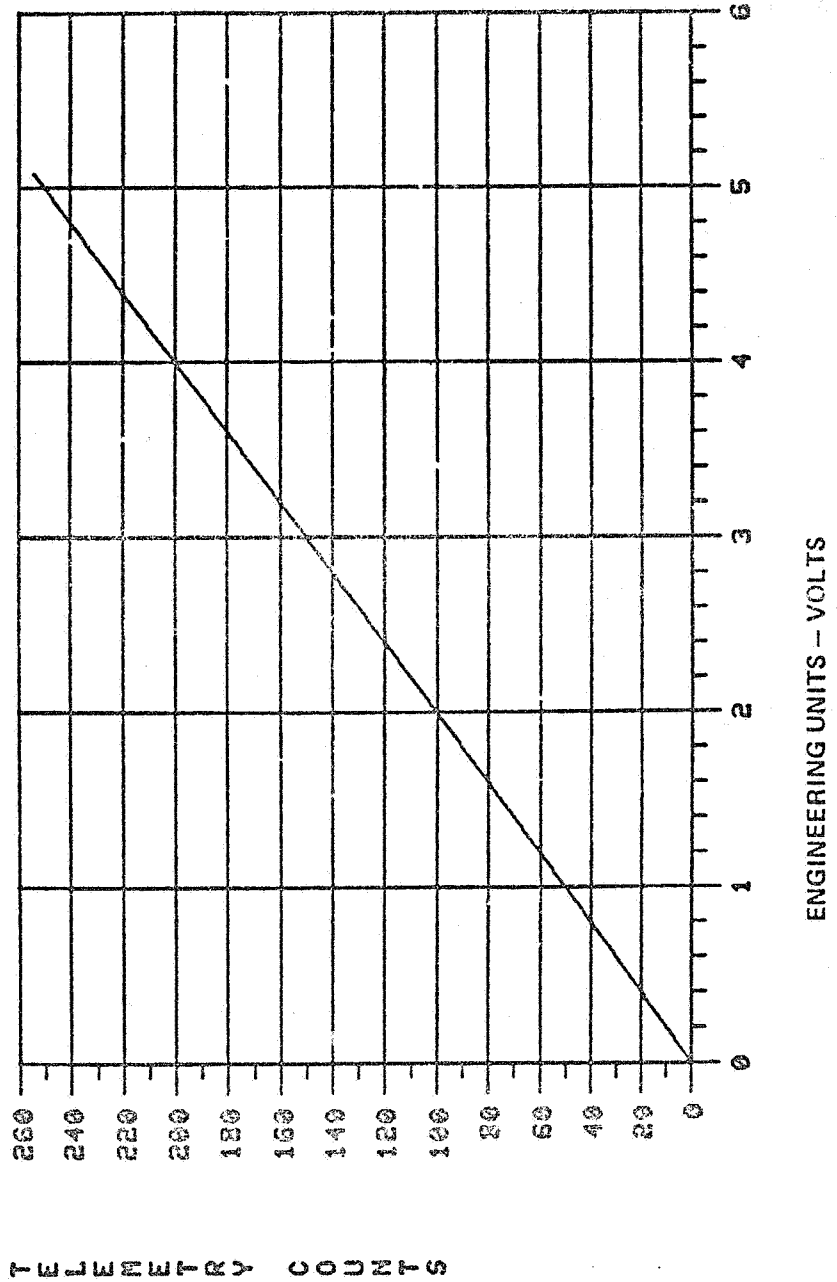


TELEMETRY COUNTS

ENGINEERING UNITS - VOLTS

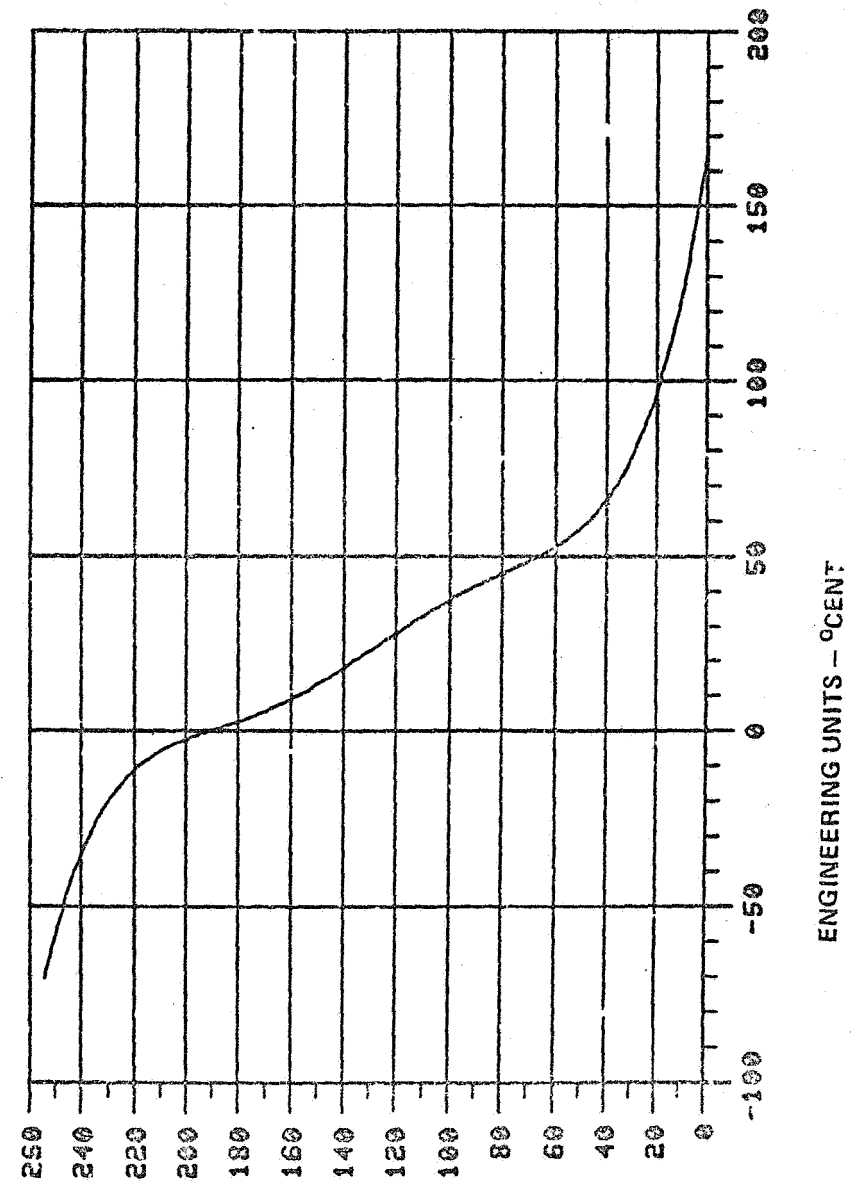
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COUNTS VS ENGINEERING UNITS FOR EESISIG



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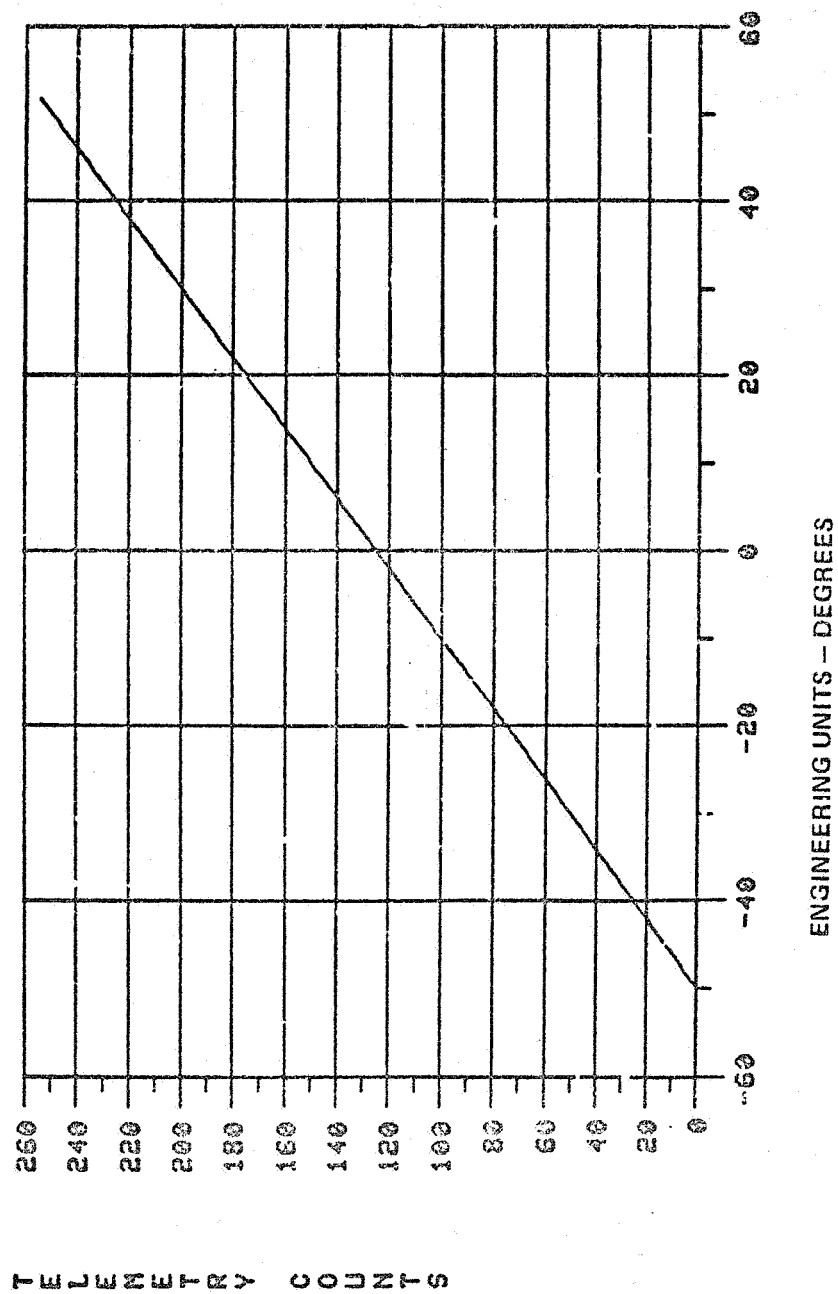
COUNTS VS ENGINEERING UNITS FOR EES1TMP



TELEMETRY COUNTS

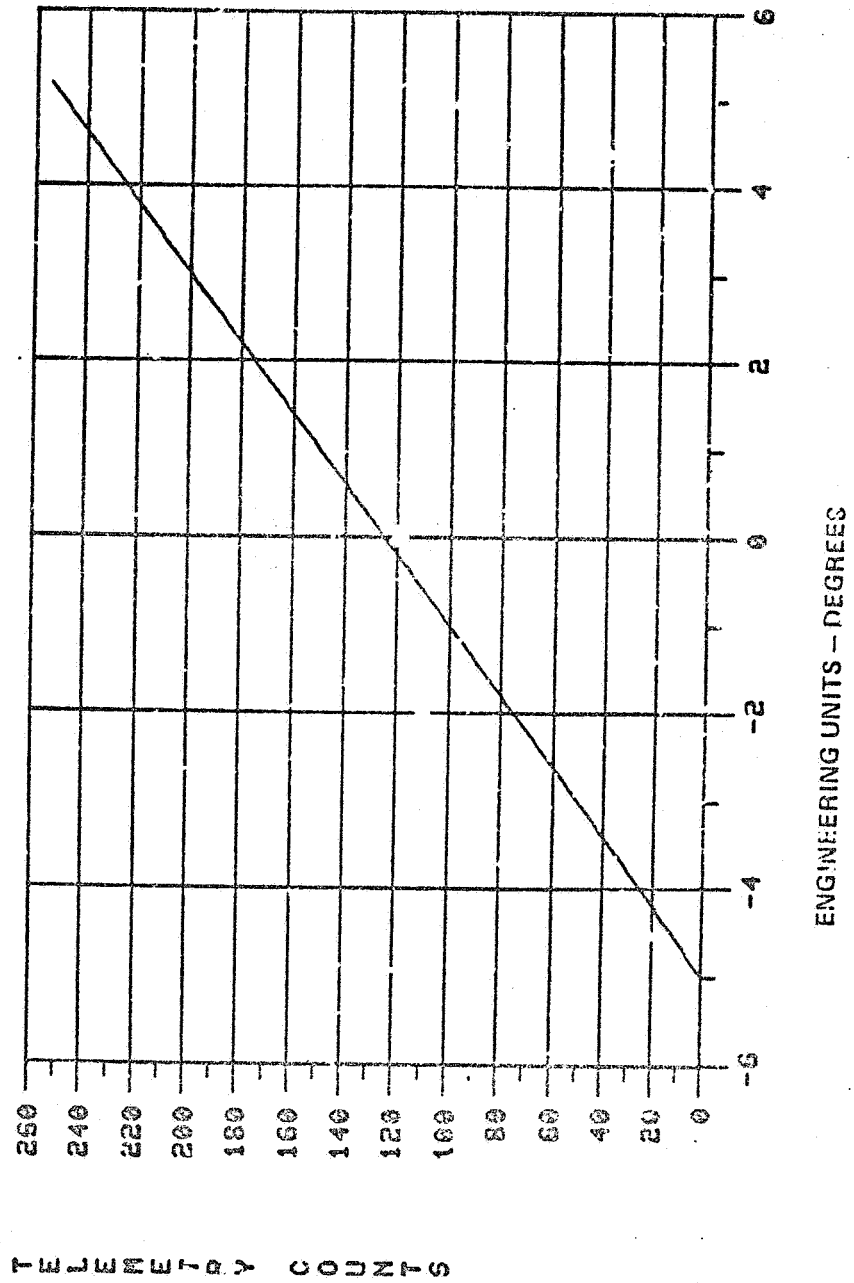
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COUNTS VS ENGINEERING UNITS FOR EES1XC



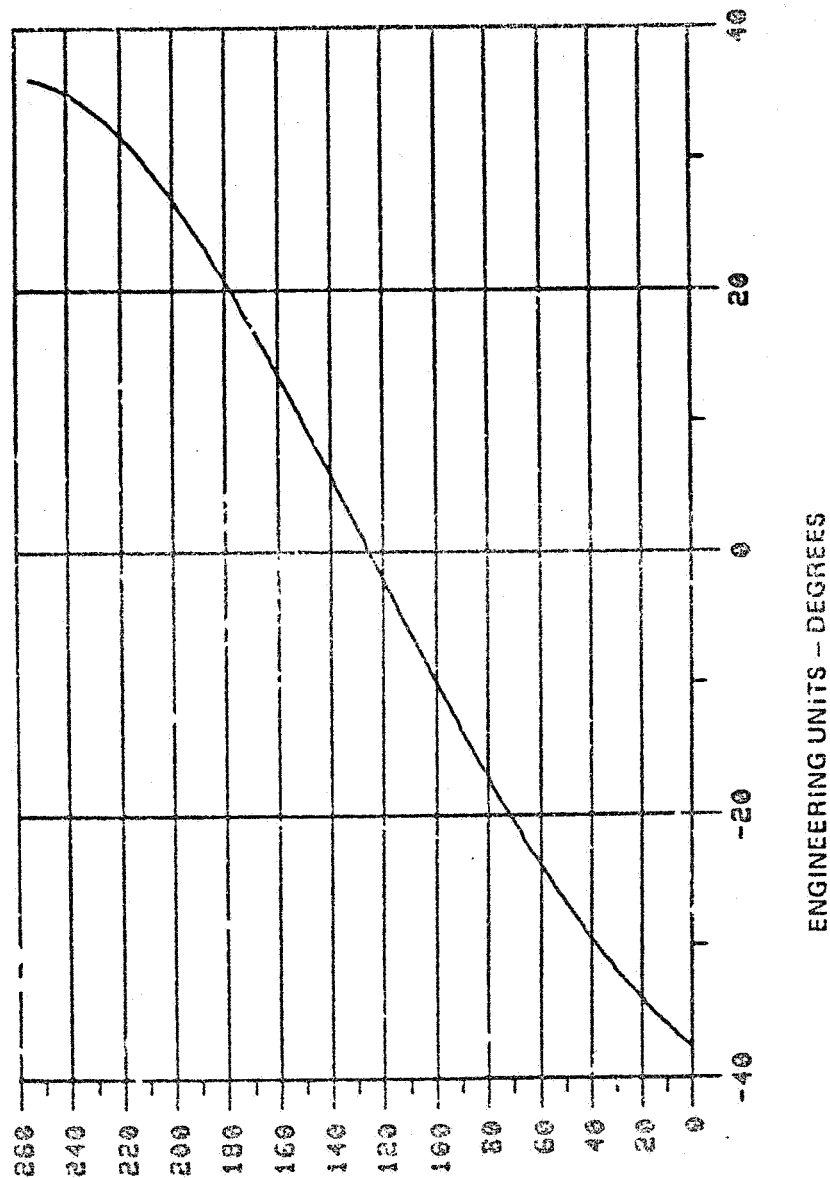
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COUNTS VS ENGINEERING UNITS FOR EESIXF



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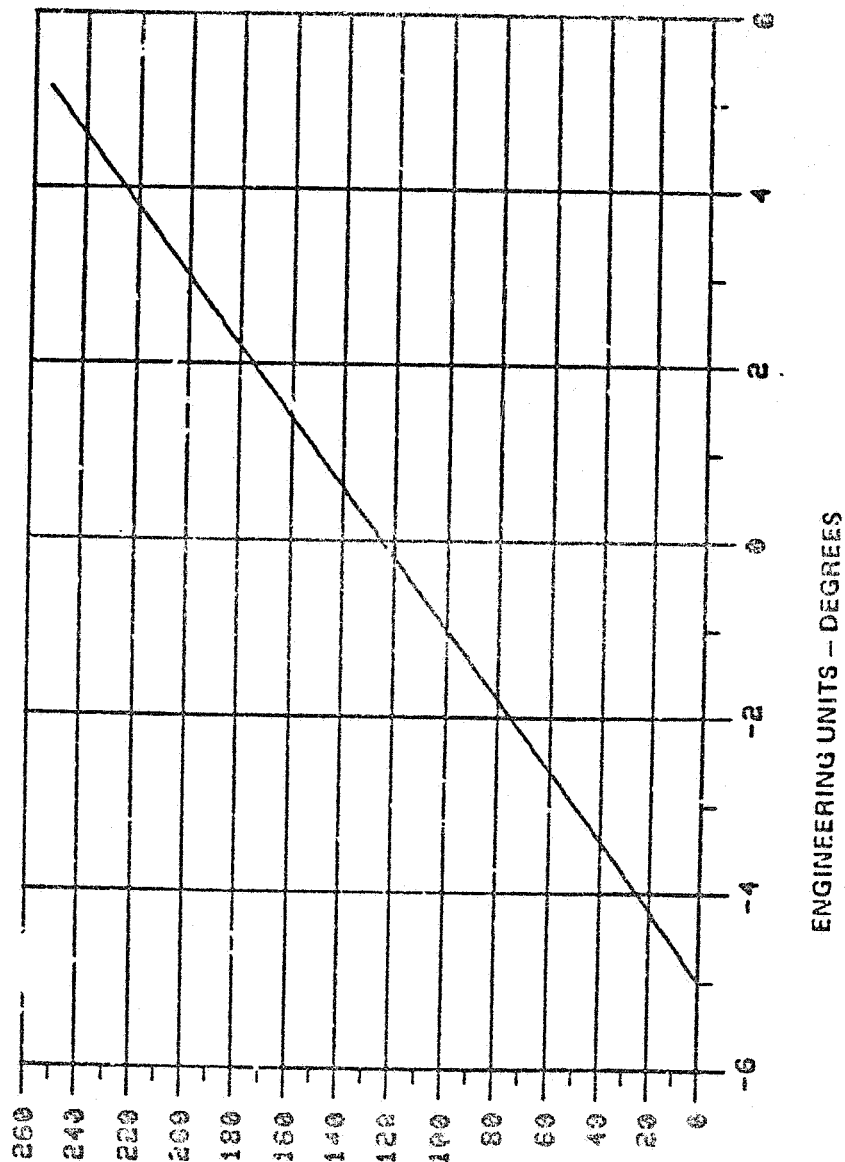
COUNTS VS ENGINEERING UNITS FOR SESIYC



TRIGGER COUNTS

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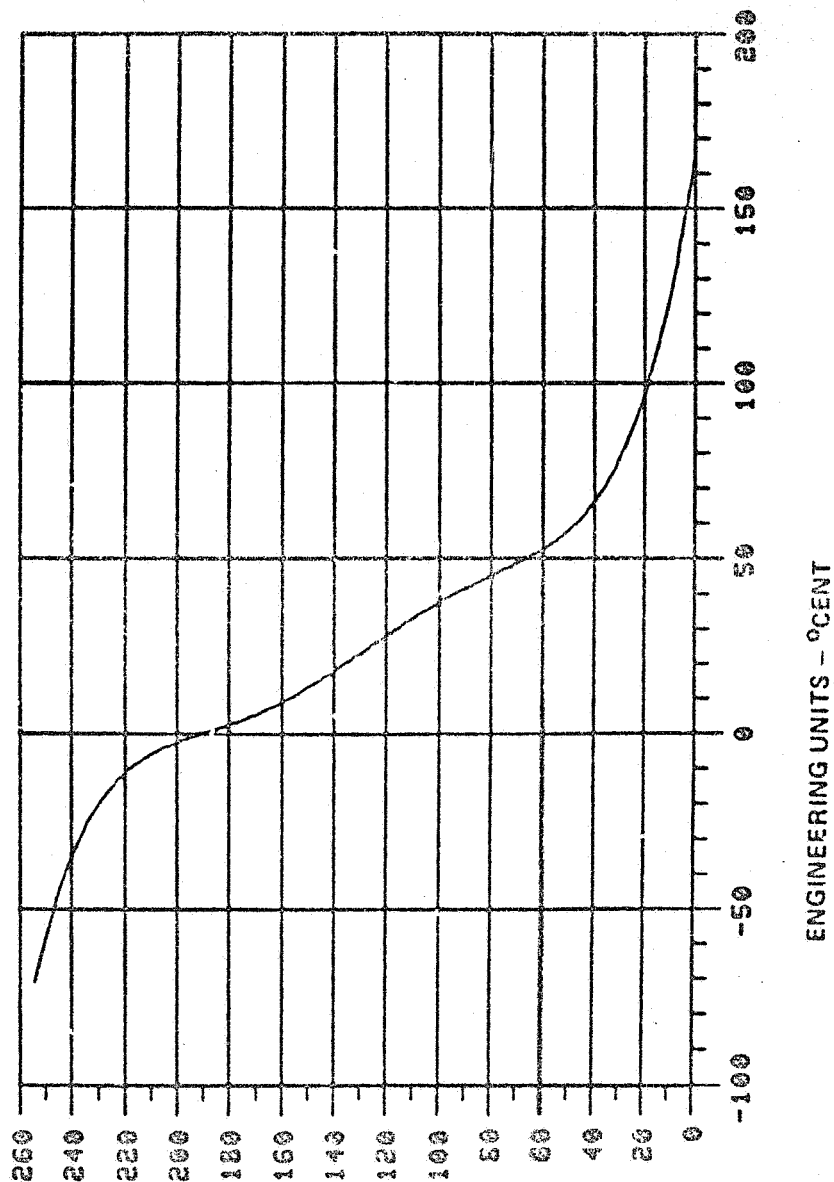
COUNTS VS ENGINEERING UNITS FOR EES1VF



TELEMETRY COUNTS

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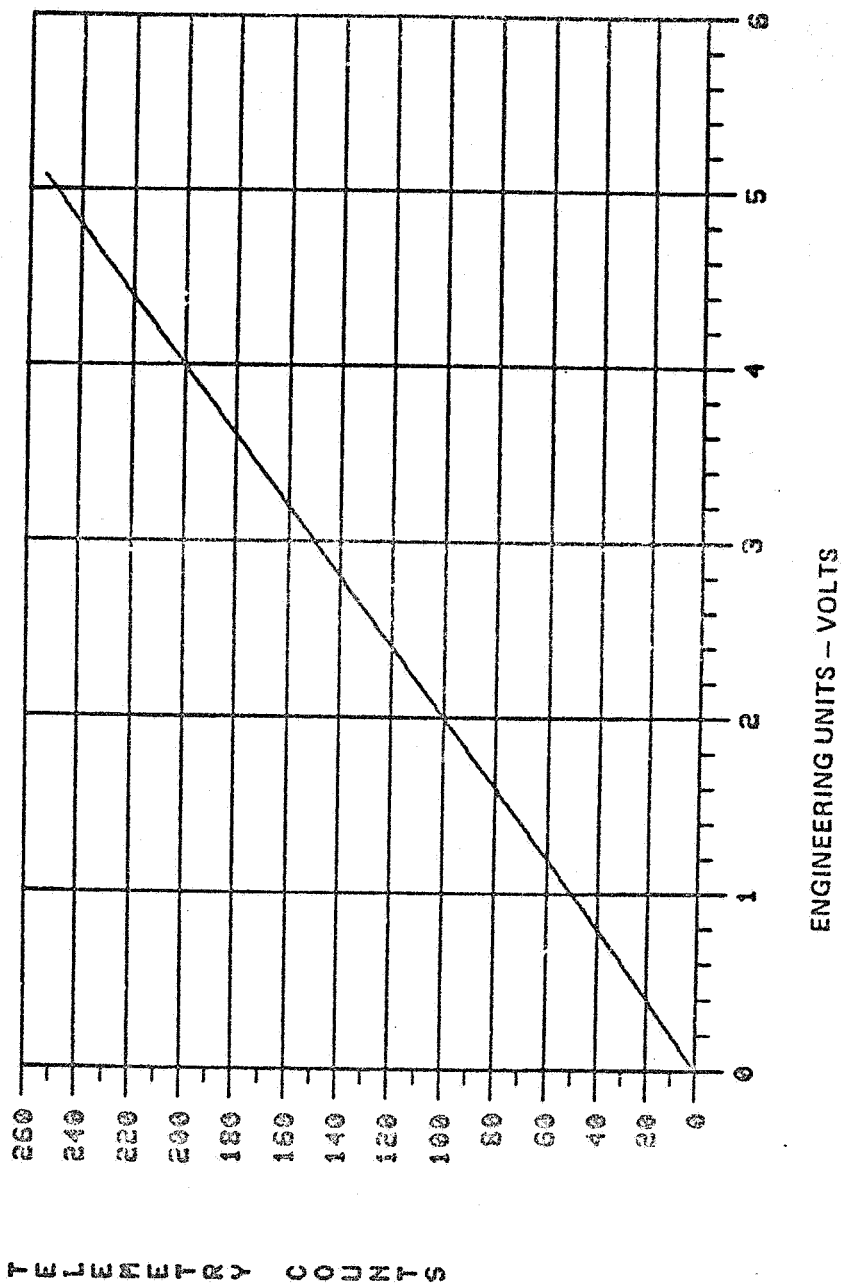
COUNTS VS ENGINEERING UNITS FOR EES2BTMP



TELE. TRY COUNTS

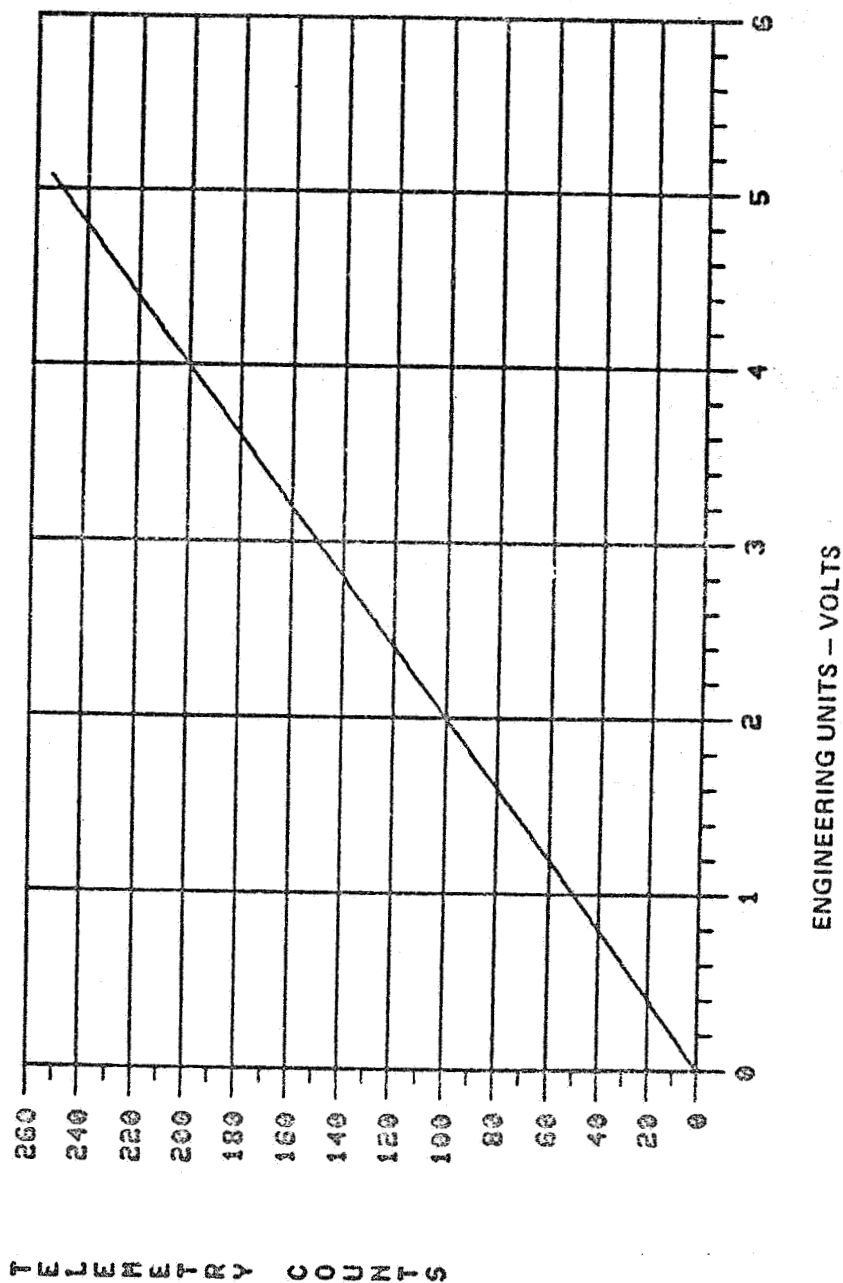
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COUNTS VS ENGINEERING UNITS FOR EES26EN



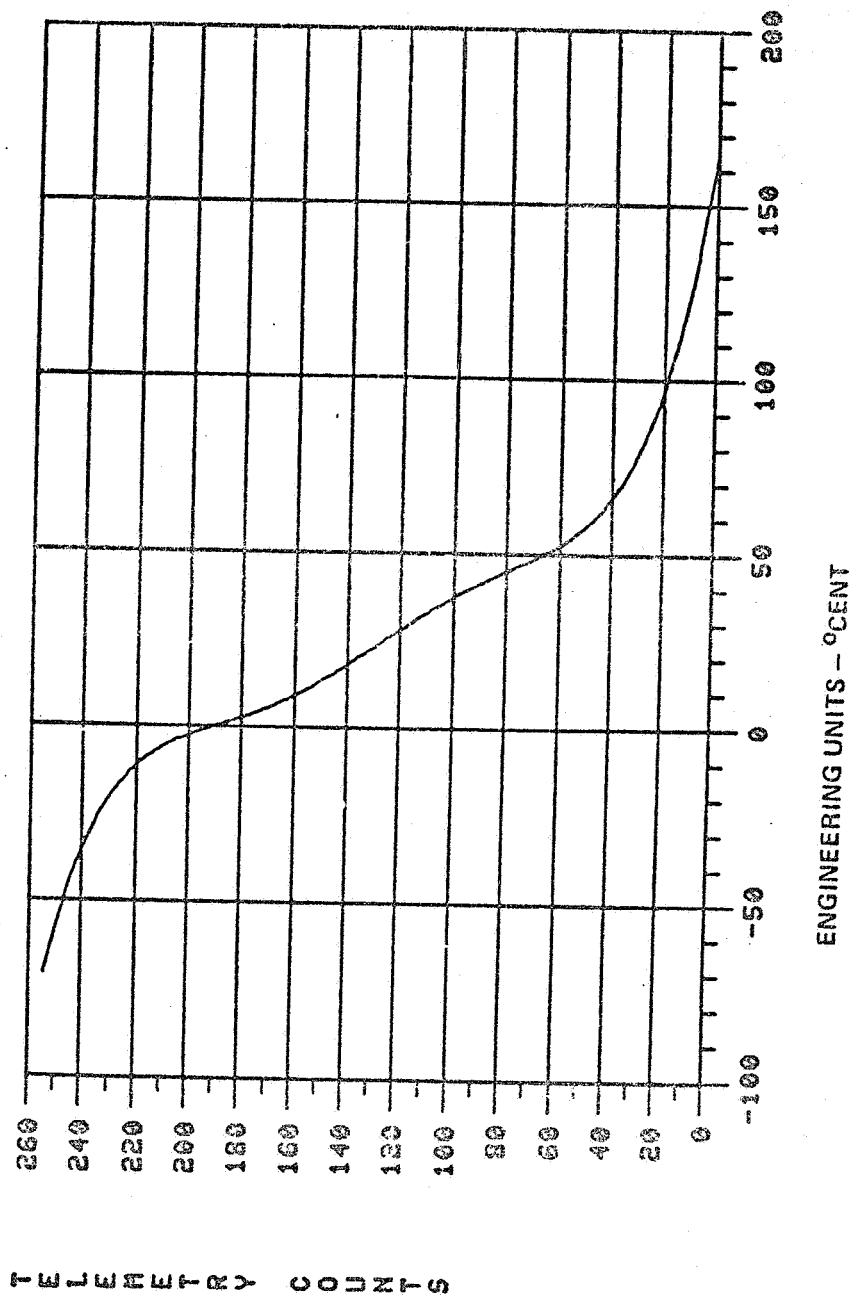
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COUNTS VS ENGINEERING UNITS FOR EES2SIG



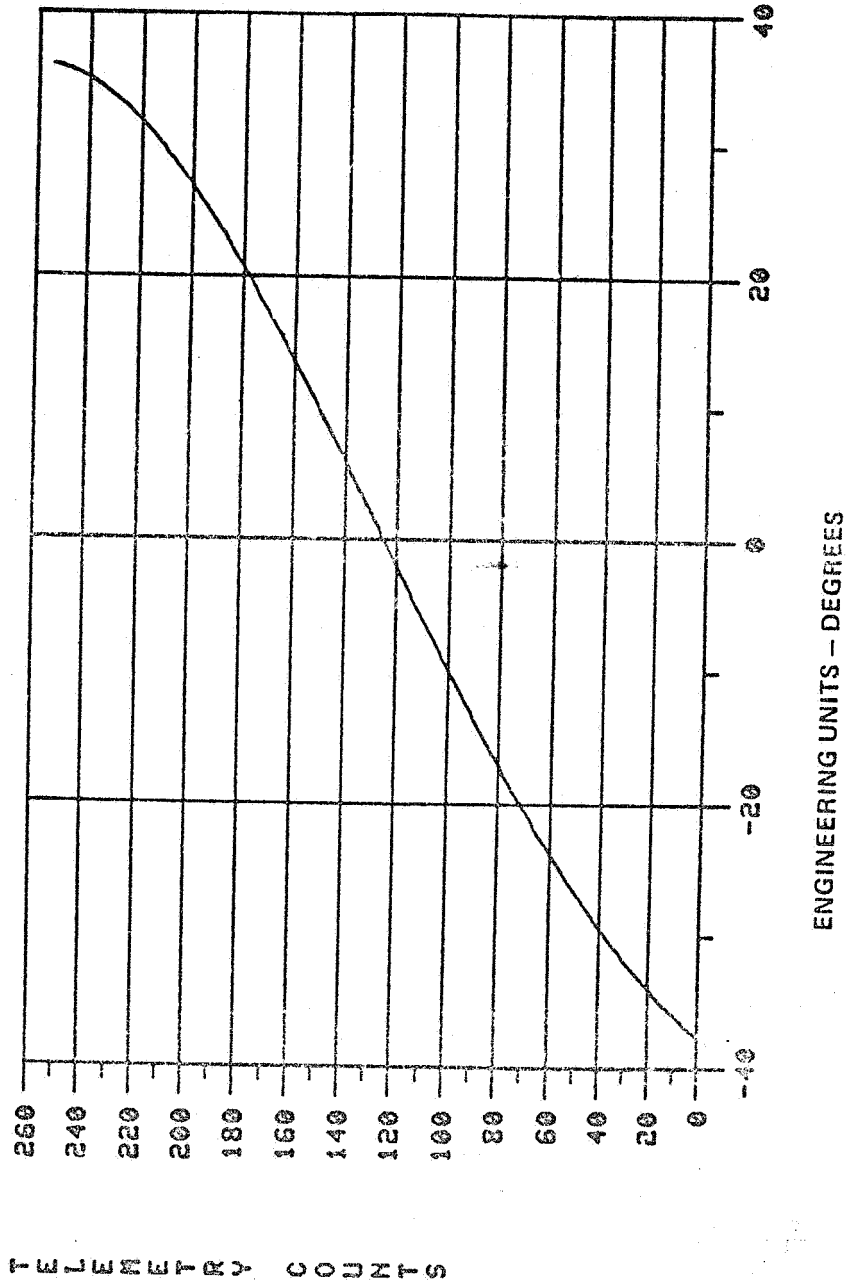
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COUNTS VS ENGINEERING UNITS FOR EES2TAP



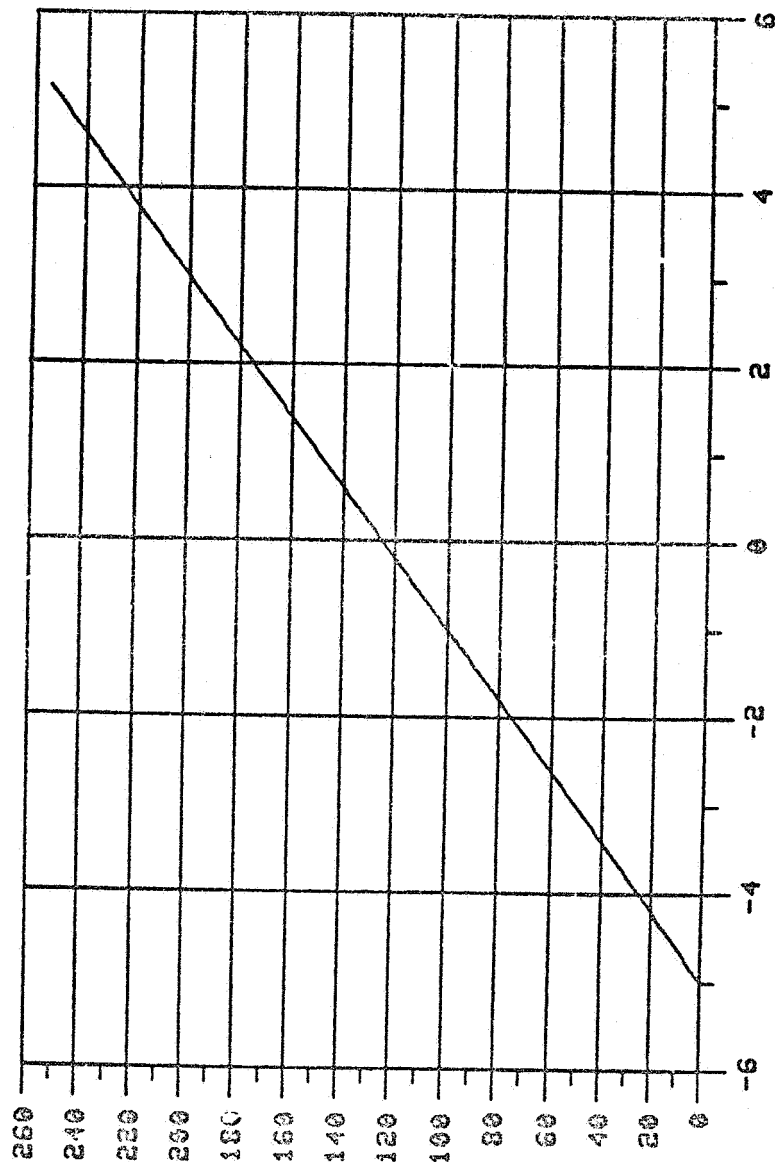
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COUNTS VS ENGINEERING UNITS FOR EES2XC



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COUNTS US ENGINEERING UNITS FOR EES2XF

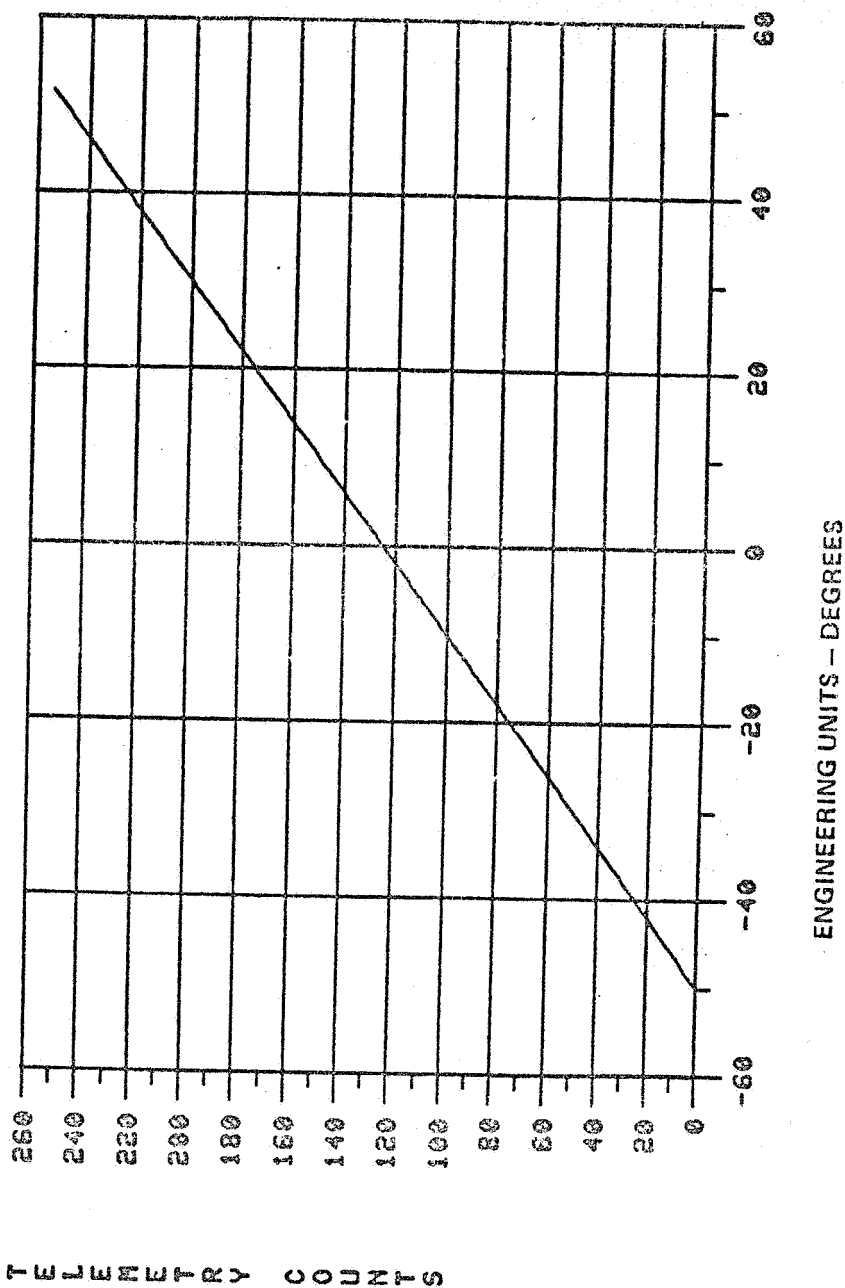


ENGINEERING UNITS -- DEGREES

TELEMETRY COUNTS

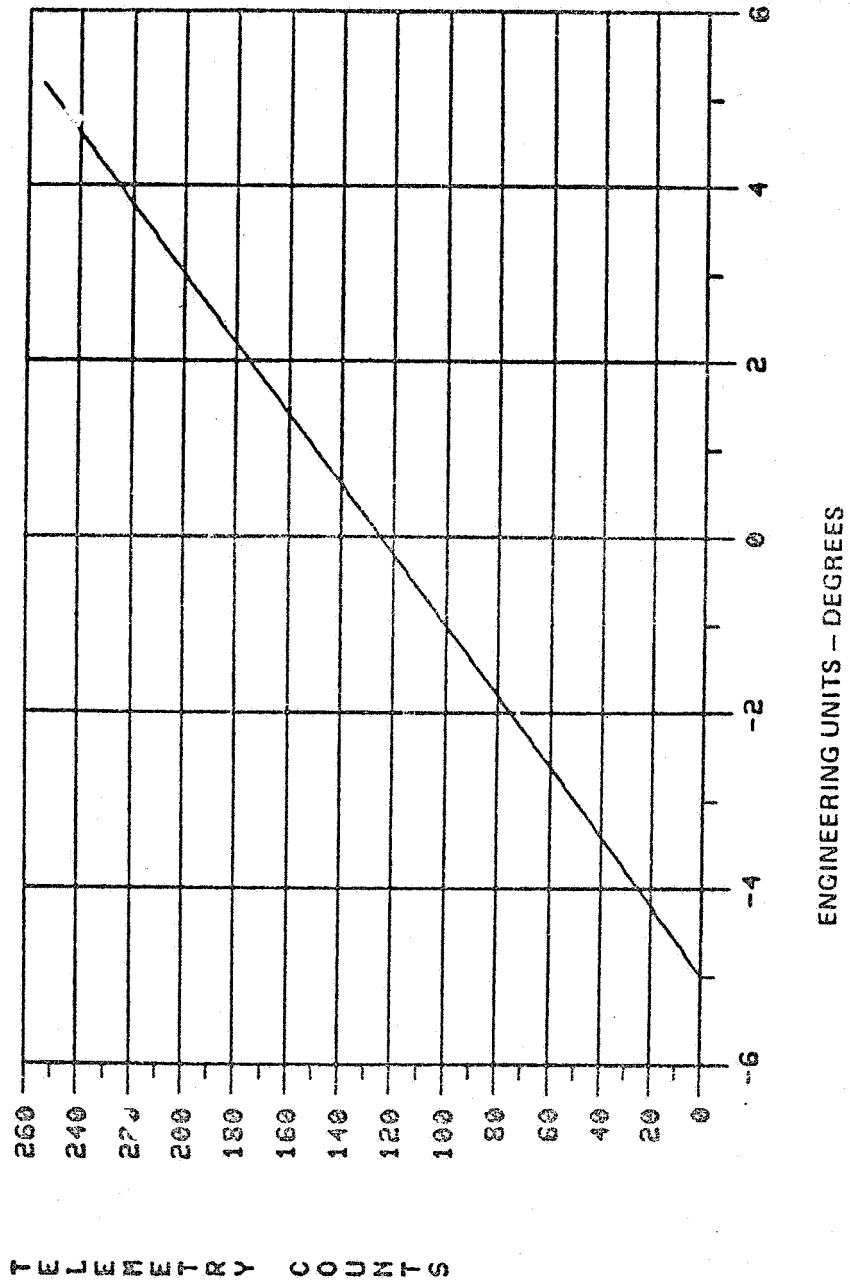
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COUNTS VS ENGINEERING UNITS FOR EE52VC



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COUNTS VS ENGINEERING UNITS FOR EES2VF



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APPENDIX A.4

COMMAND AND DATA HANDLING (C&DH) TELEMETRY CALIBRATION DATA

The calibration curve coefficients for each telemetry point are controlled in the data base. They are listed along with the unit section number where the sensor is located. Tables showing the coefficients may be obtained from the data base administrator. The tables show telemetry volts (counts) vs. engineering units.

LSD-WPC-263

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CDH CONV. DEF.

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; CDH POINT DEF.
POINT CCUATMP ; STACC CU A TEMP in deg. centigrade
COEFF CCUATMP , 123.41,-2.073,.02265739,-.0001514293,.5173663E-06,-.7163077E-09
POINT CCUBTMP ; STACC CU B TEMP in deg. centigrade
COEFF CCUBTMP , 123.41,-2.073,.02265739,-.0001514293,.5173663E-06,-.7163077E-09
POINT CPCUTMP ; PCU TEMP in deg. centigrade
COEFF CPCUTMP , 123.41,-2.073,.02265739,-.0001514293,.5173663E-06,-.7163077E-09
POINT CPMP TMP ; PMP TEMP in deg. centigrade
COEFF CPMP TMP , 123.41,-2.073,.02265739,-.0001514293,.5173663E-06,-.7163077E-09
POINT CSAGCXPA ; XPNDR A AGC STDN MODE in
COEFF CSAGCXPA , -.25143E+2,-.1393E+1,.15124E-1,-.1141E-3,.41195E-6,-.5479E-9
POINT CSAGXPB ; XPNDR B AGC STDN MODE in
COEFF CSAGXPB , -.1269E+2,-.1554E+1,.1758E-1,-.1266E-3,.4323E-6,-.5570E-9
POINT CTA610 ; MODULE TEMP NEAR HTR A610 THMSTAT in deg. centigrade
COEFF CTA610 , 123.41,-2.073,.02265739,-.0001514293,.5173663E-06,-.7163077E-09
POINT CTA611 ; MODULE TEMP NEAR HTR A611 THMSTAT in deg. centigrade
COEFF CTA611 , 123.41,-2.073,.02265739,-.0001514293,.5173663E-06,-.7163077E-09
POINT CTAGCXPA ; XPNDR A AGC TDRSS MODE in
COEFF CTAGCXPA , -.59.2308,-0.4196
POINT CTAGXPB ; XPNDR B AGC TDRSS MODE in
COEFF CTAGXPB , -.675E+2,-.30E00
POINT CTEXOSC ; EXT OSCILLATOR CASE TEMP in deg. centigrade
COEFF CTEXOSC , .20319E3,-.77138E1,.13482,-.11783E-2,.49263E-5,-.79271E-8
POINT CTMEM03 ; MEM 0,3 INTERSPACE TEMP in deg. centigrade
COEFF CTMEM03 , 123.41,-2.073,.02265739,-.0001514293,.5173663E-06,-.7163077E-09
POINT CTRIUA ; RIU 01 A TEMP in deg. centigrade
COEFF CTRIUA , 123.41,-2.073,.02265739,-.0001514293,.5173663E-06,-.7163077E-09
POINT CTRIUA B ; RIU 01 A/B INTERSPACE TEMP in deg. centigrade
COEFF CTRIUA B , 123.41,-2.073,.02265739,-.0001514293,.5173663E-06,-.7163077E-09
POINT CTRIUB ; RIU 01 B TEMP in deg. centigrade
COEFF CTRIUB , 123.41,-2.073,.02265739,-.0001514293,.5173663E-06,-.7163077E-09
POINT CTSTNTA ; STINT A TEMP in deg. centigrade
COEFF CTSTNTA , 123.41,-2.073,.02265739,-.0001514293,.5173663E-06,-.7163077E-09
POINT CTSTNTB ; STINT B TEMP in deg. centigrade
COEFF CTSTNTB , 123.41,-2.073,.02265739,-.0001514293,.5173663E-06,-.7163077E-09
POINT CTXOVEN ; EXT OSC OVEN TEMP in deg. centigrade
COEFF CTXOVEN , .16067E3,-.27709E1,.36536E-1,-.29093E-3,.11473E-5,-.17642E-8
POINT CTXPAB ; MODULE TEMP BETWEEN XPNDRS A & B in deg. centigrade
COEFF CTXPAB , 123.41,-2.073,.02265739,-.0001514293,.5173663E-06,-.7163077E-09
POINT CTXPAPA ; XPNDR A POWER AMP TEMP in deg. centigrade
COEFF CTXPAPA , 96.47,-3.0517,.04956856,-.0004319081,.182755E-05,-.2956399E-08
POINT CTXPAXO ; XPNDR A TCXO TEMP in deg. centigrade
COEFF CTXPAXO , 96.47,-3.0517,.04956856,-.0004319081,.182755E-05,-.2956399E-08
POINT CTXPBPA ; XPNDR B POWER AMP TEMP in deg. centigrade
COEFF CTXPBPA , 96.47,-3.0517,.04956856,-.0004319081,.182755E-05,-.2956399E-08
POINT CTXPBXO ; XPNDR B TCXO TEMP in deg. centigrade
COEFF CTXPBXO , 96.47,-3.0517,.04956856,-.0004319081,.182755E-05,-.2956399E-08
POINT CUNRG28 ; +28V UNREG BUS in
COEFF CUNRG28 , 0.0,0.1853

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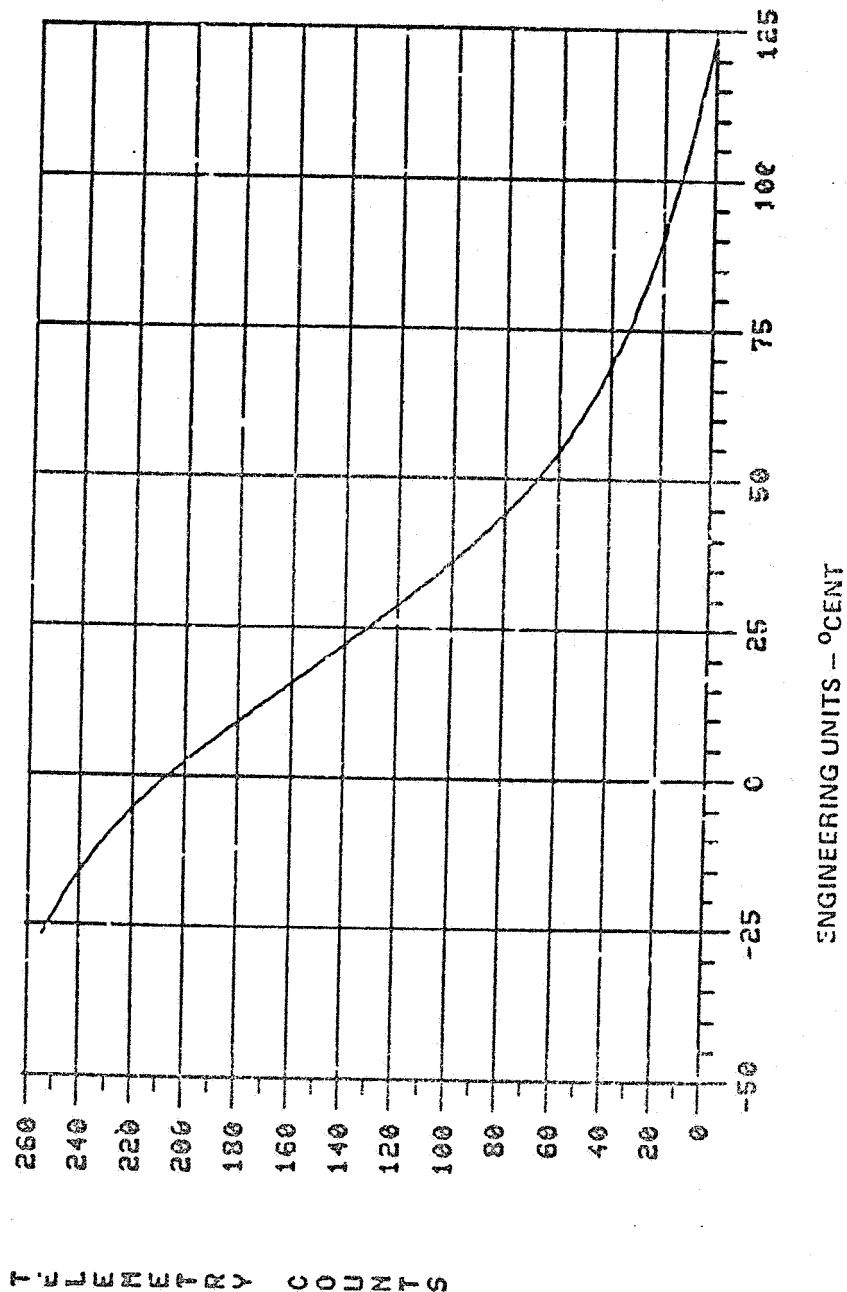
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POINT	CVEXOSC	; EXT OSC REG VOLTAGE in
COEFF	CVEXOSC	, 0.0,0.05359
POINT	CVXOVEN	; EXT OSC OVEN VOLTAGE in
COEFF	CVXOVEN	, 0.0,0.06896
POINT	CXPAFWD	; XPNDR A RF FORWARD POWER in
COEFF	CXPAFWD	, -.7247E-3,.1867E-1,.6336E-4,-.1448E-5,.1035E-7,-.2103E-10
POINT	CXPAREV	; XPNDR A RF REFLECTED POWER in
COEFF	CXPAREV	, .5437E-2,.4050E-2,-.1989E-3,.3398E-5,-.8093E-8
POINT	CXPBFWD	; XPNDR B RF FORWARD POWER in
COEFF	CXPBFWD	, 0.0,.2692E-1
POINT	CXPBREV	; XPNDR B RF REFLECTED POWER in
COEFF	CXPBREV	, .7592E-3,.2429E-2,.2259E-3,.2560E-7,.9311E-9,.9789E-10

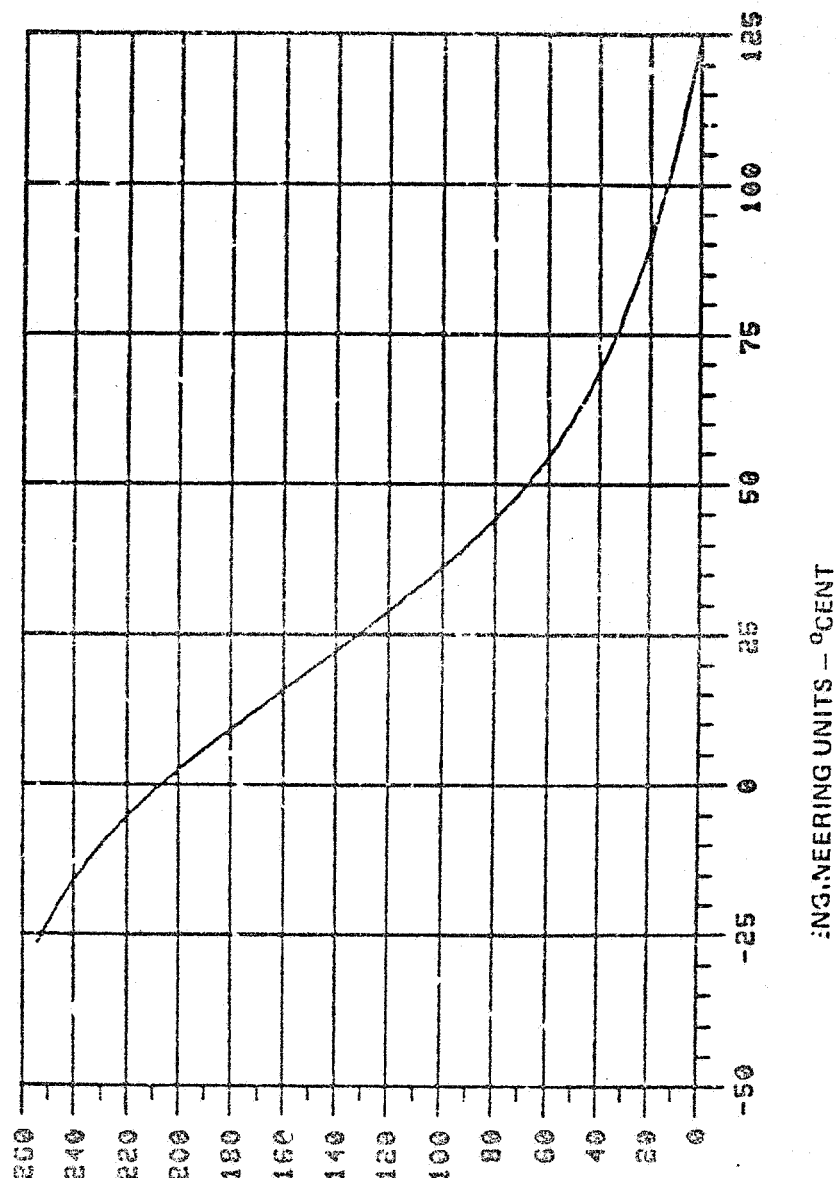
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COUNTS VS ENGINEERING UNITS FOR CCUATHP



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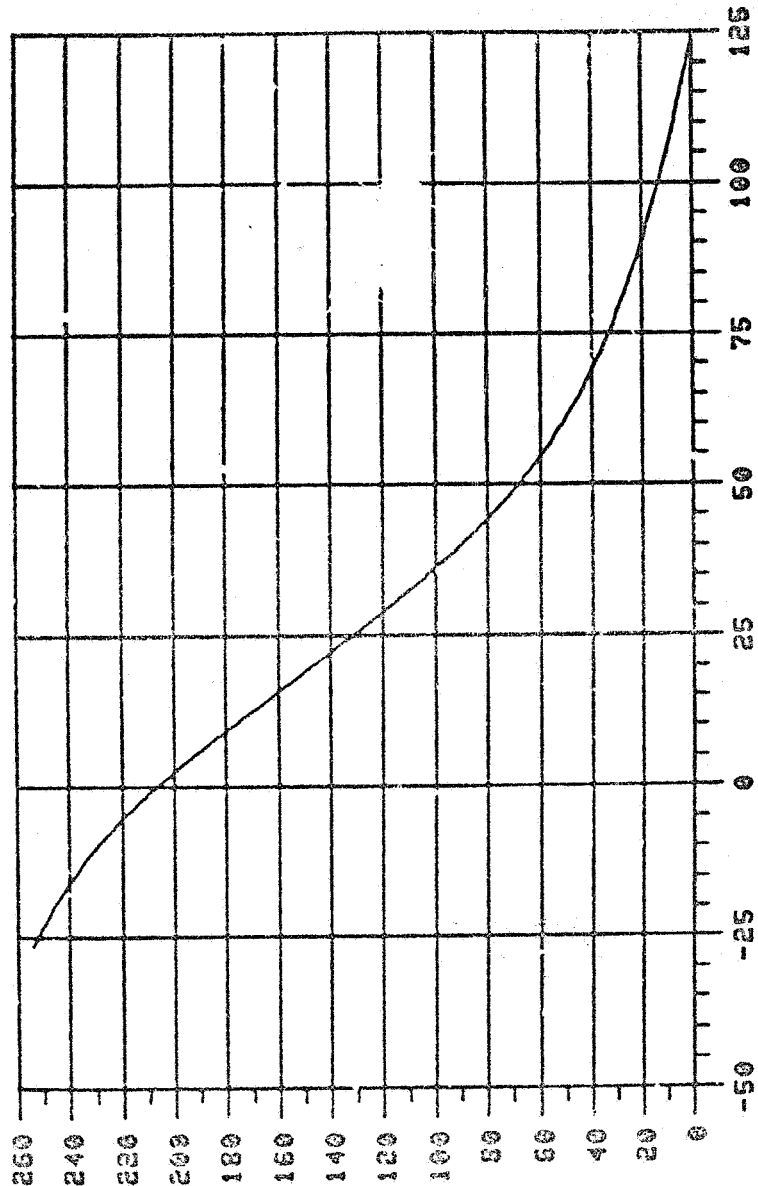
COUNTS VS ENGINEERING UNITS FOR CCUBTAP



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR CPCUTHP



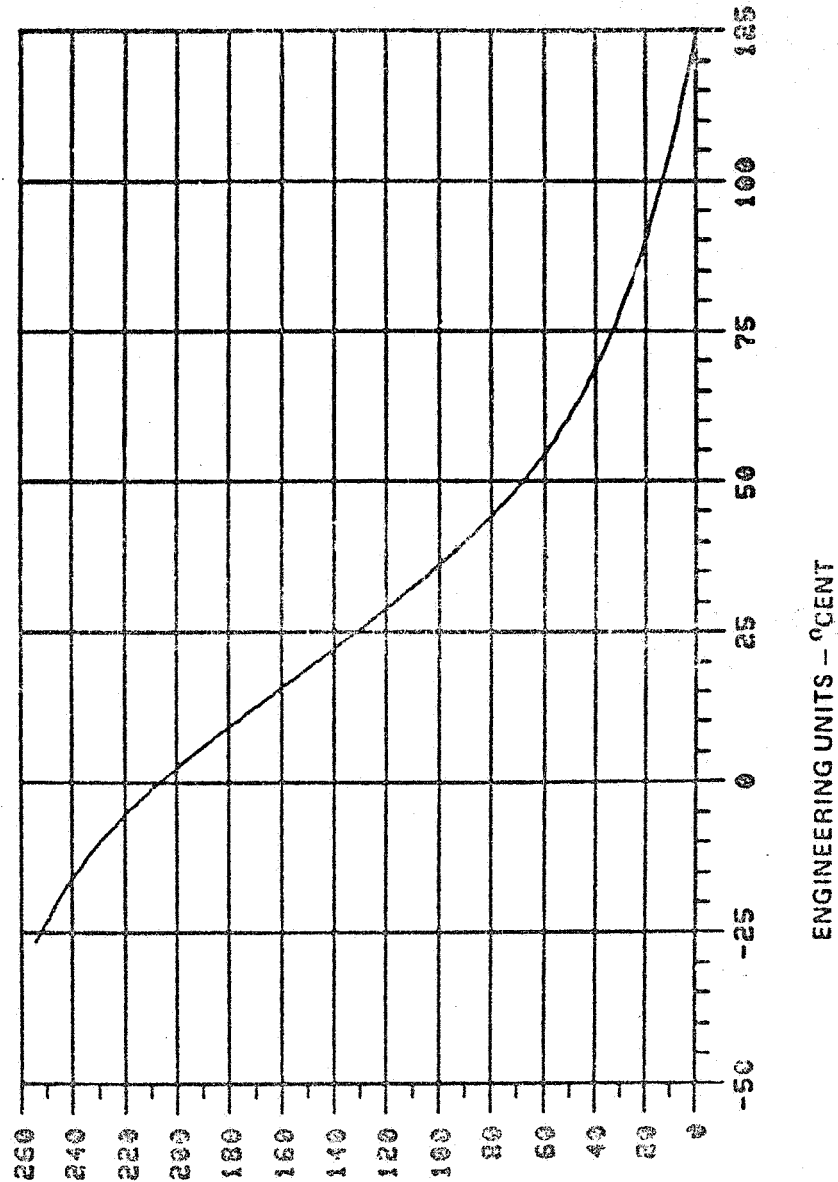
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TELEMETRY COUNTS

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June 1982

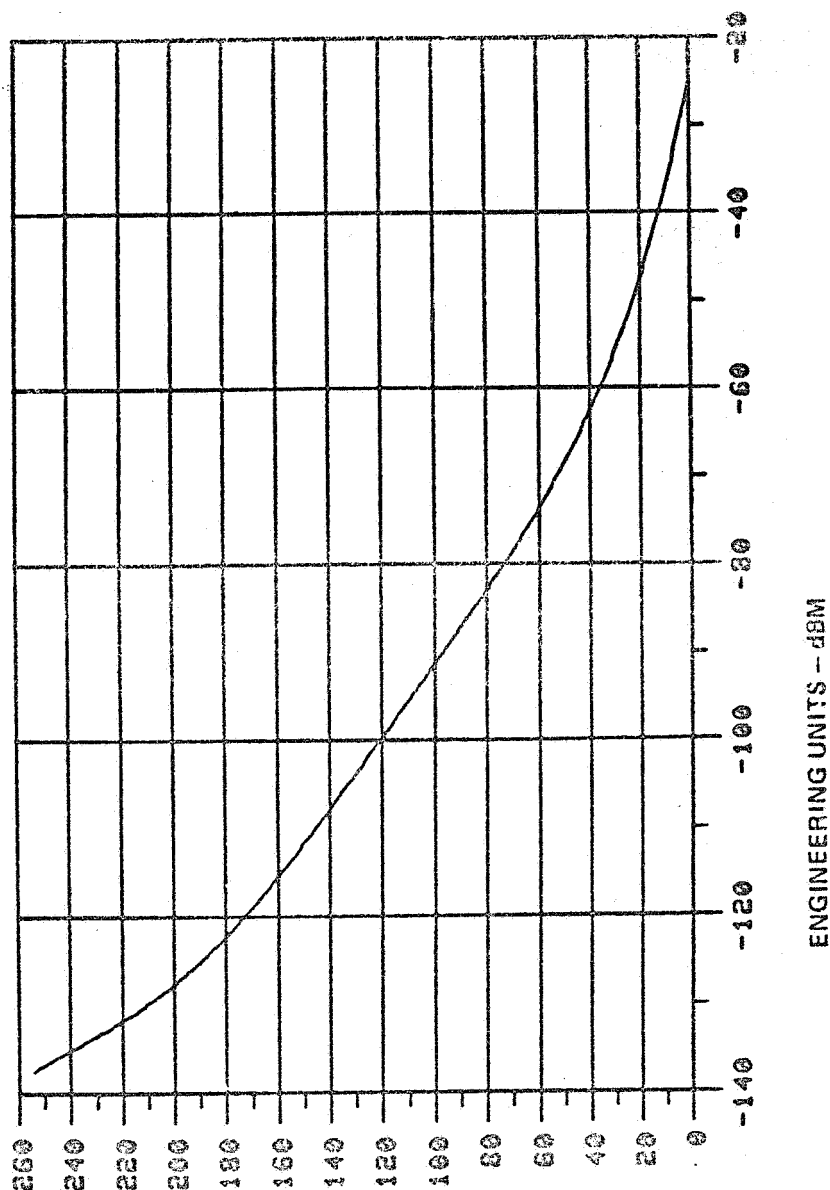
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TELEMETRY COUNTS

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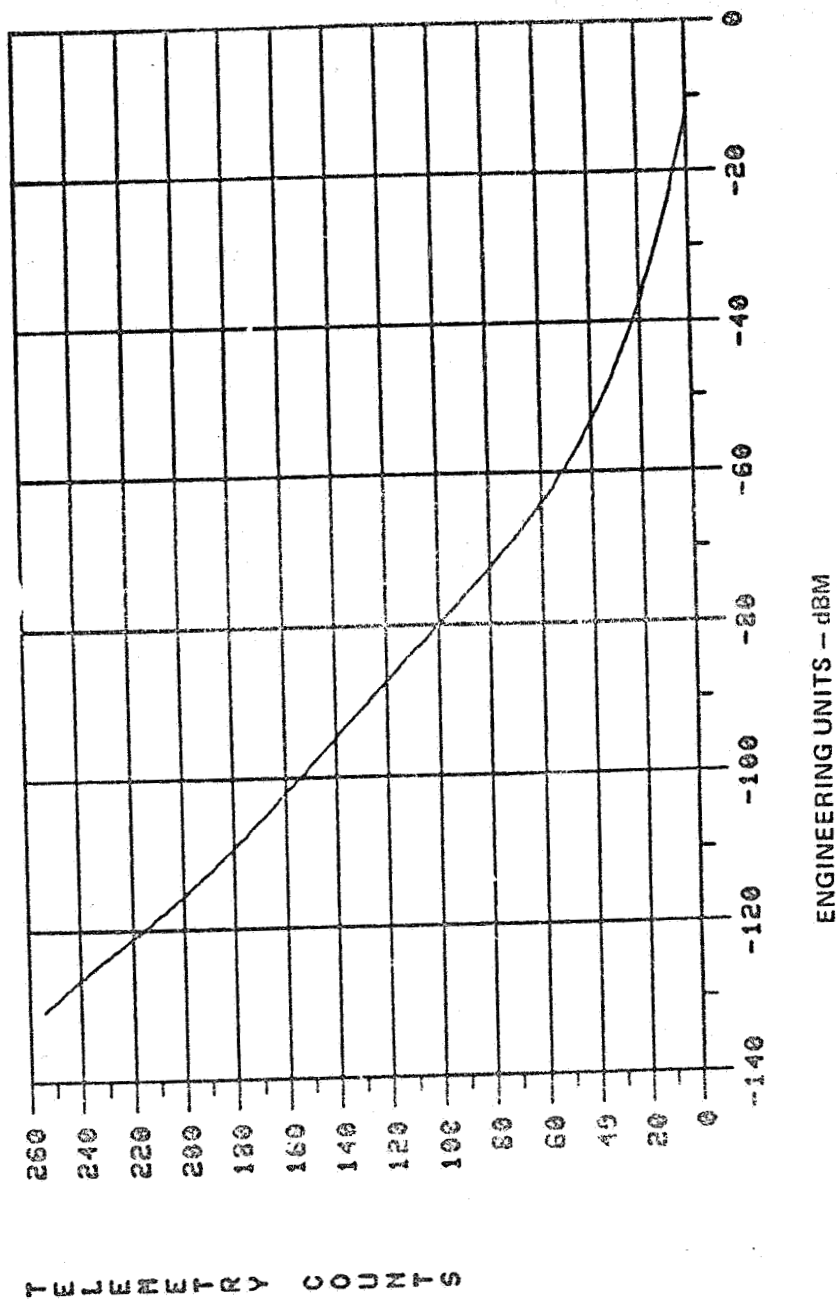
COUNTS VS ENGINEERING UNITS FOR CSAGCXP



REVERSE COUNTS

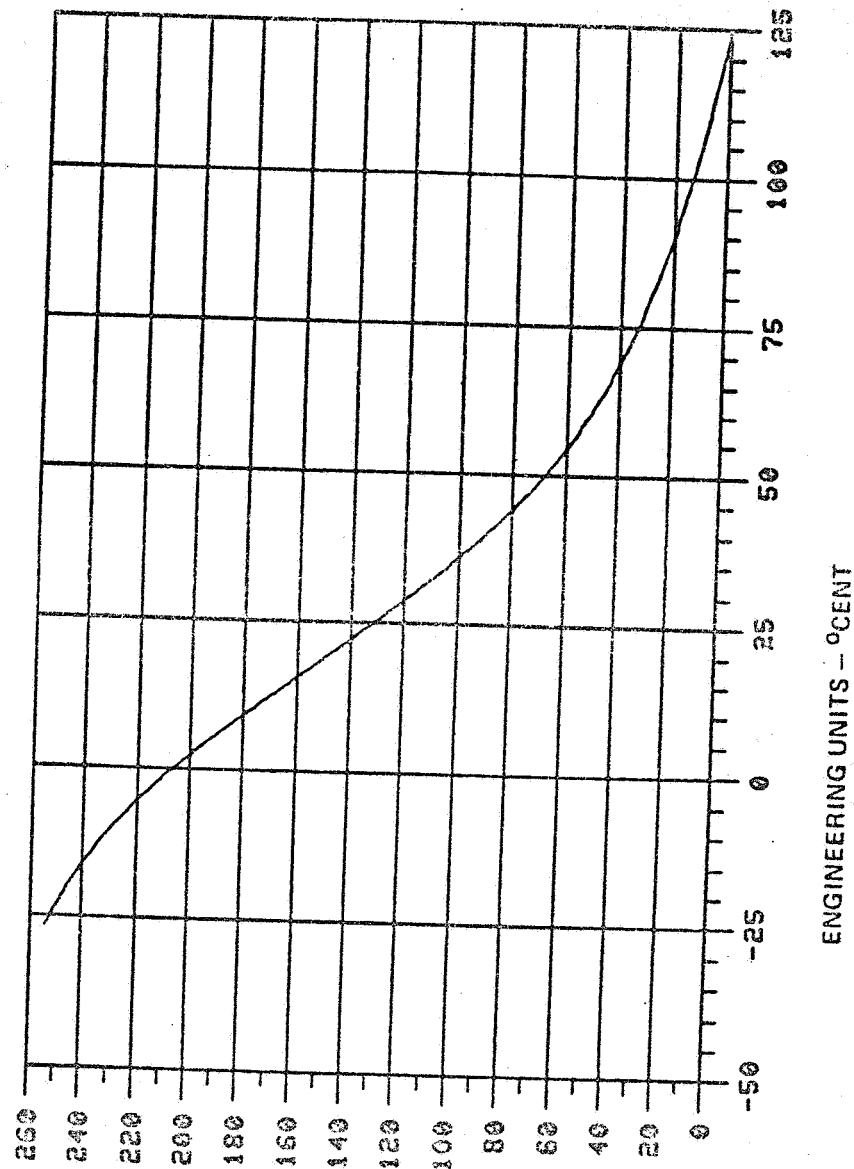
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COUNTS VS ENGINEERING UNITS FOR CSAGCXPB



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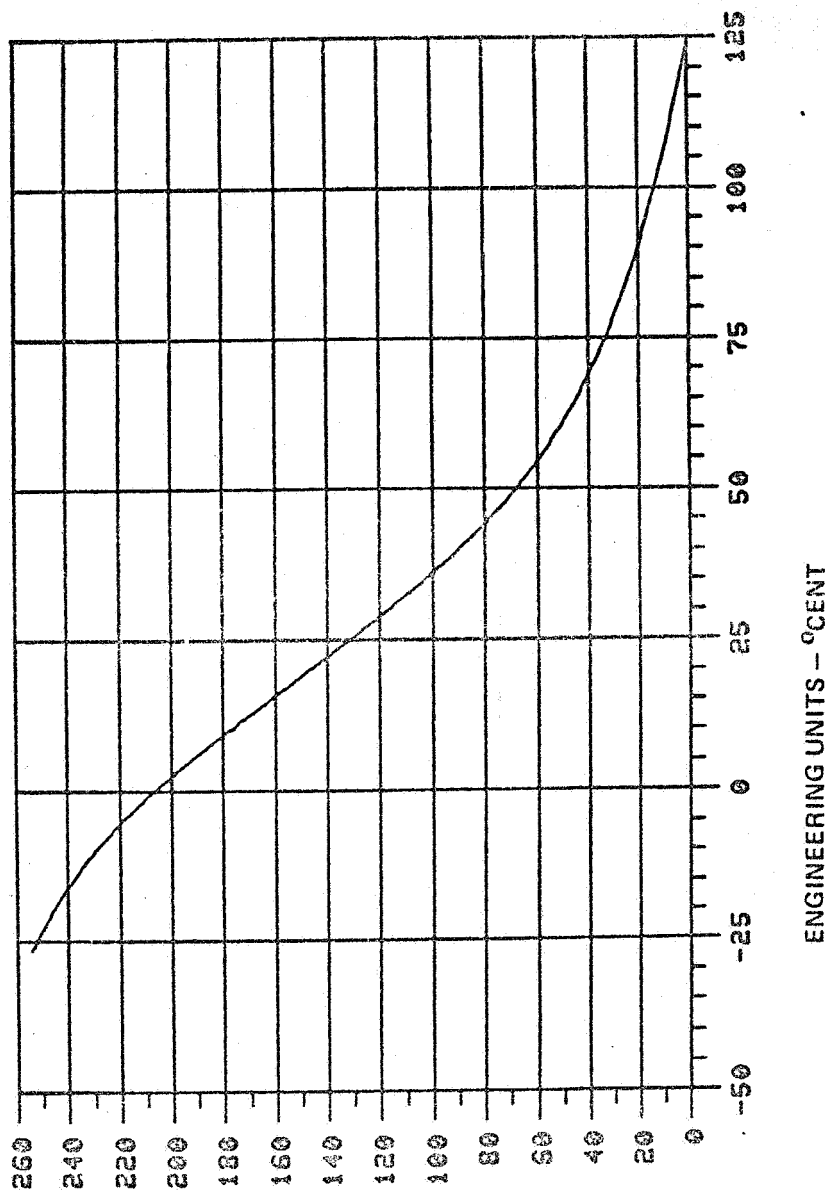
COUNTS VS ENGINEERING UNITS FOR CTA610



TELEMETRY COUNTS

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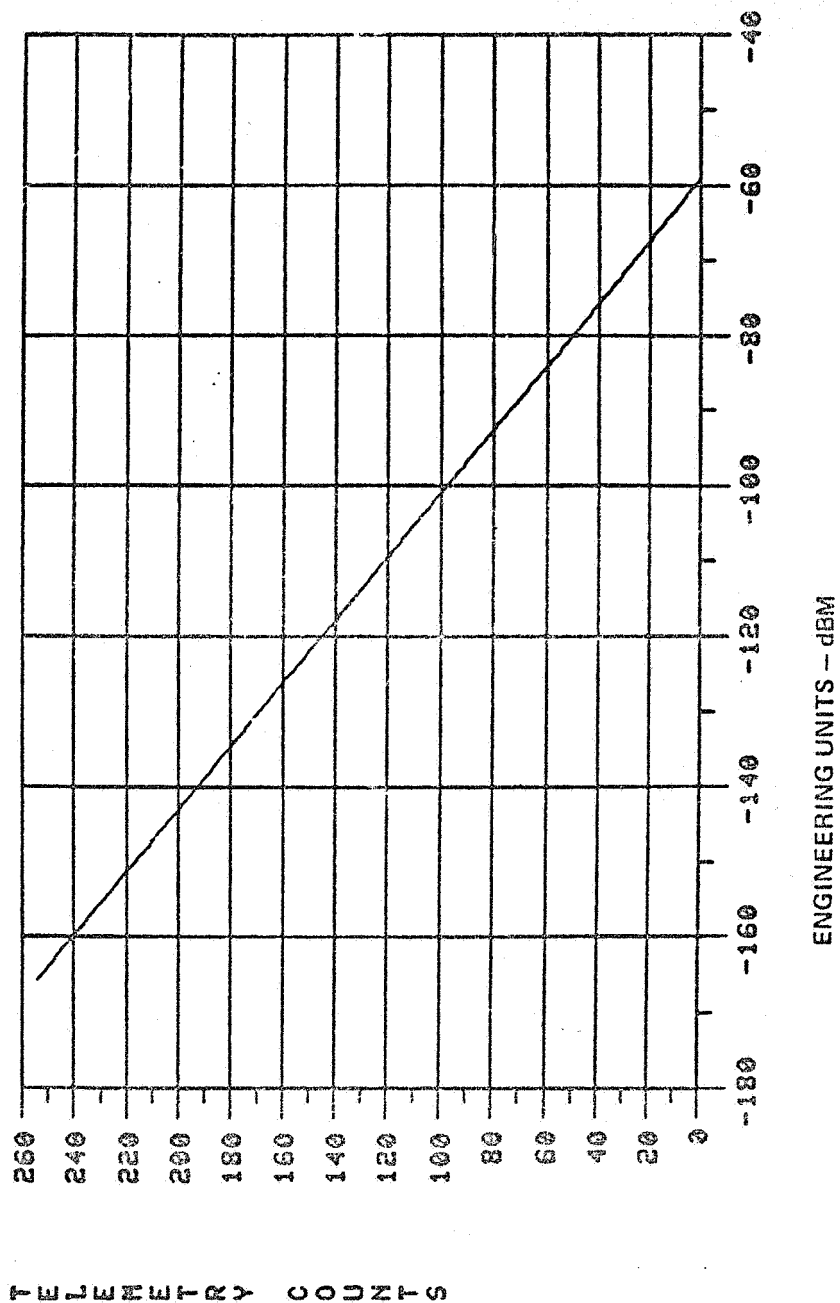
COUNTS VS ENGINEERING UNITS FOR CTA611



TELEMETRY COUNTS

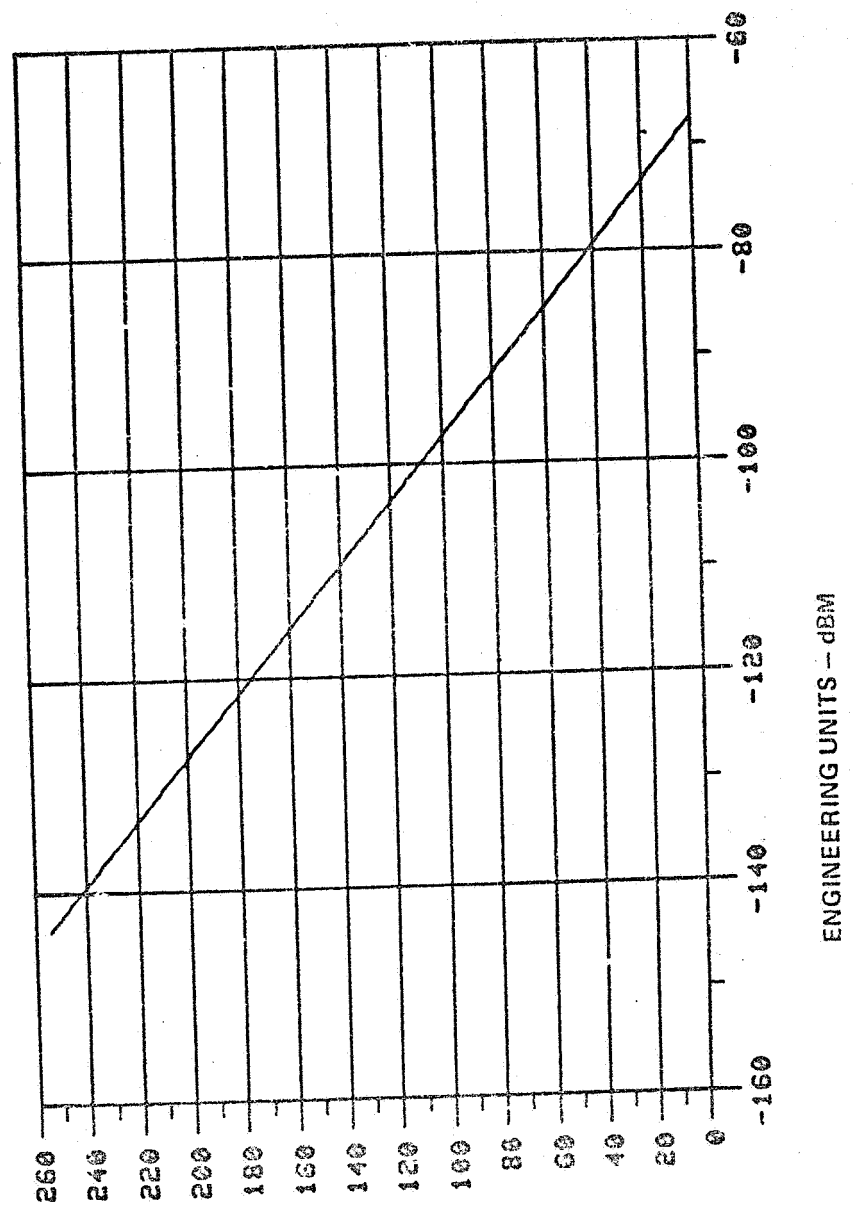
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COUNTS VS ENGINEERING UNITS FOR CTAGCXP



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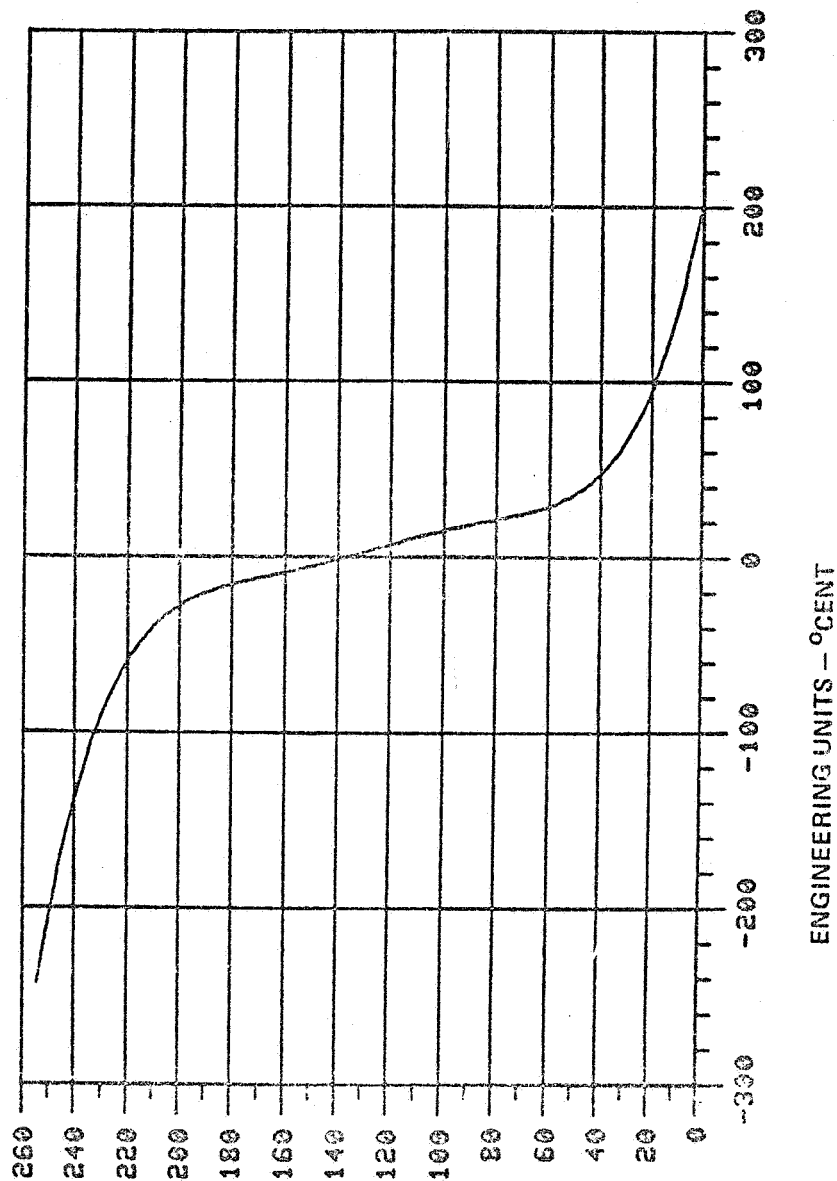
COUNTS VS ENGINEERING UNITS FOR CTAGCPB



TELEMETRY COUNTS

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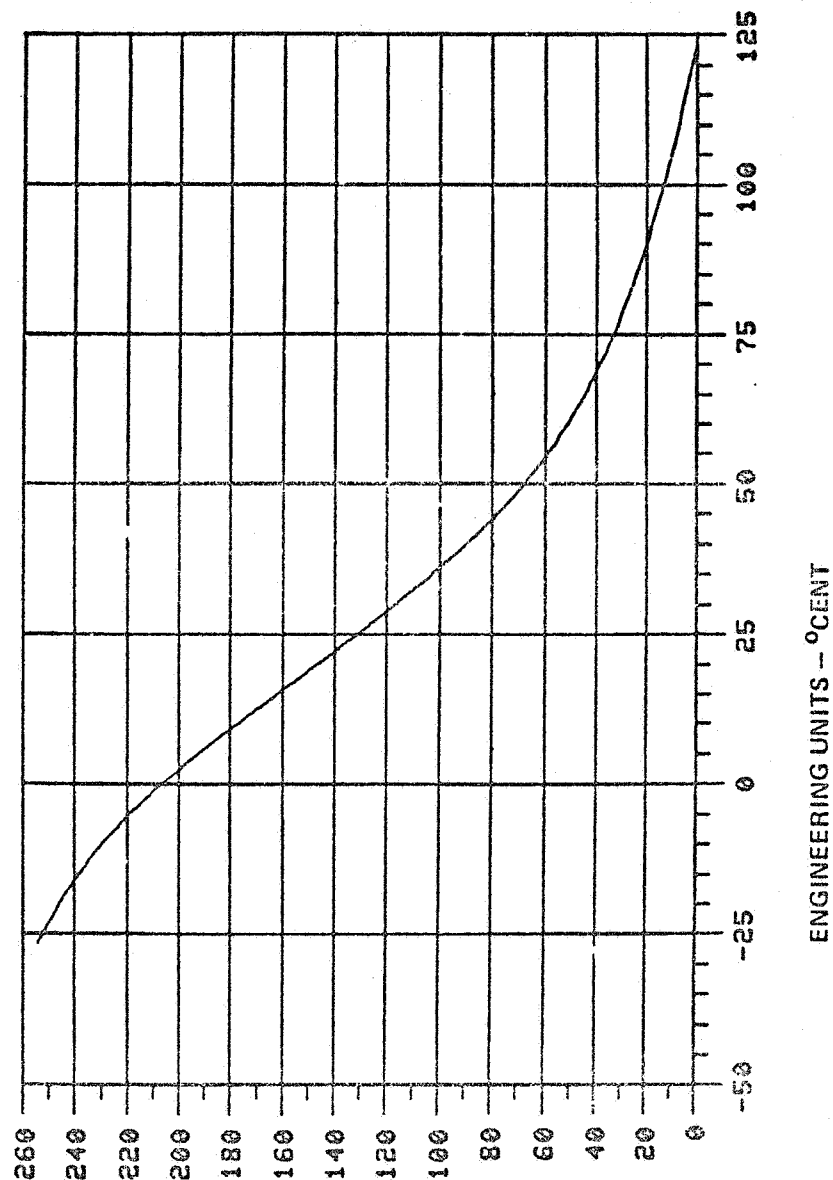
COUNTS VS ENGINEERING UNITS FOR CTXOSC



TELEMETRY COUNTS

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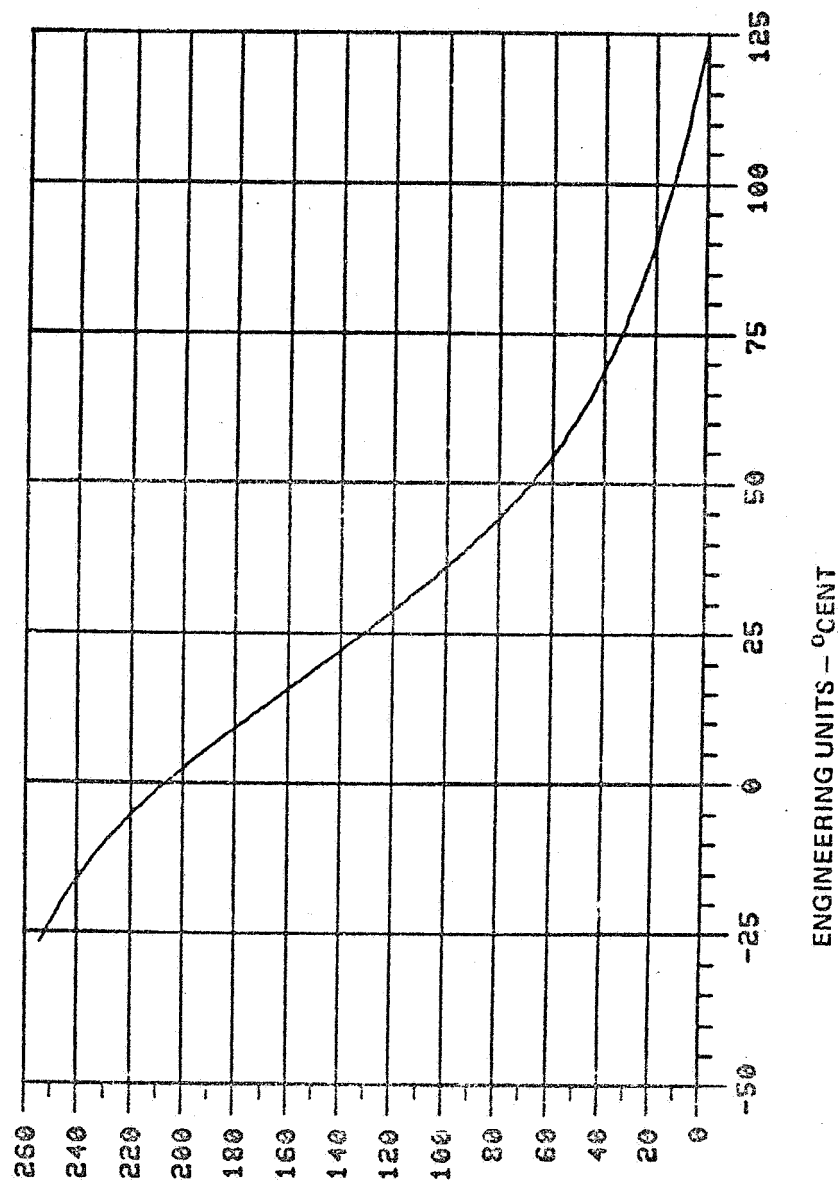
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TELEMETRY COUNTS

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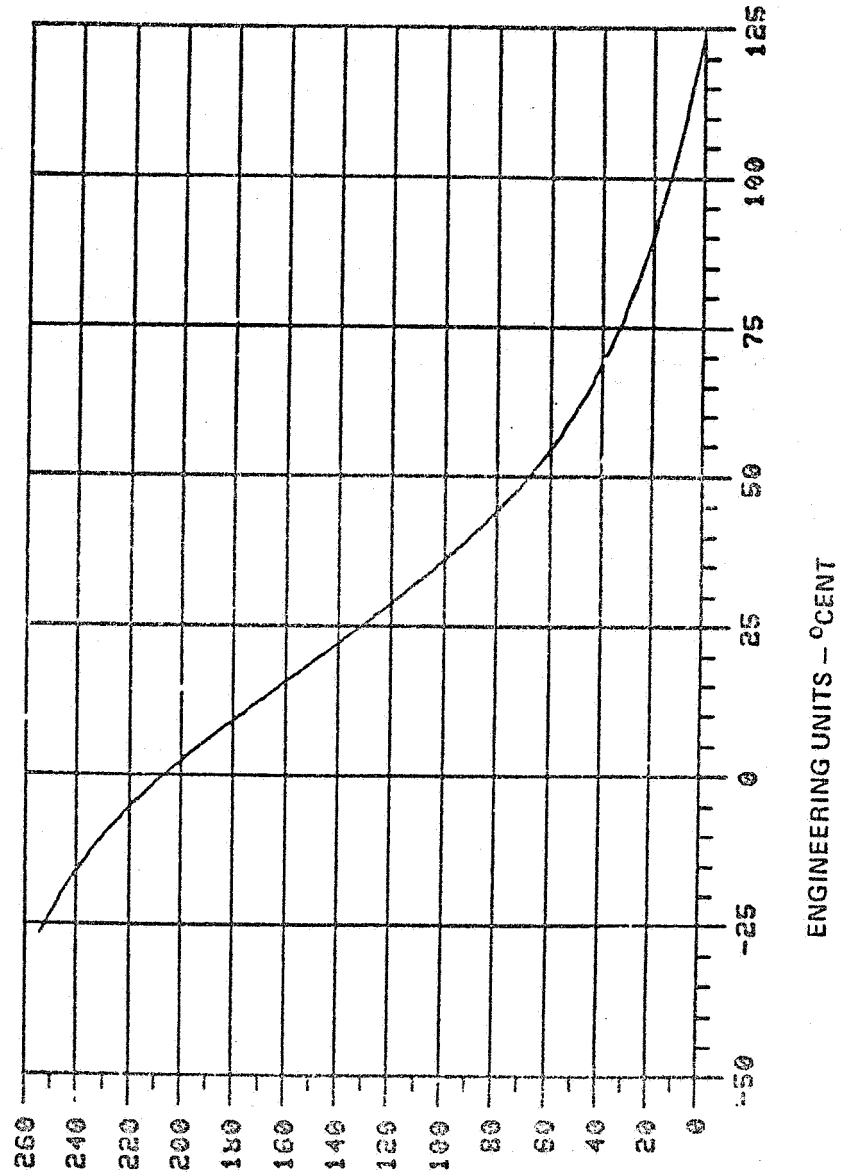
COUNTS VS ENGINEERING UNITS FOR CTRIUA



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR CTRIUA8

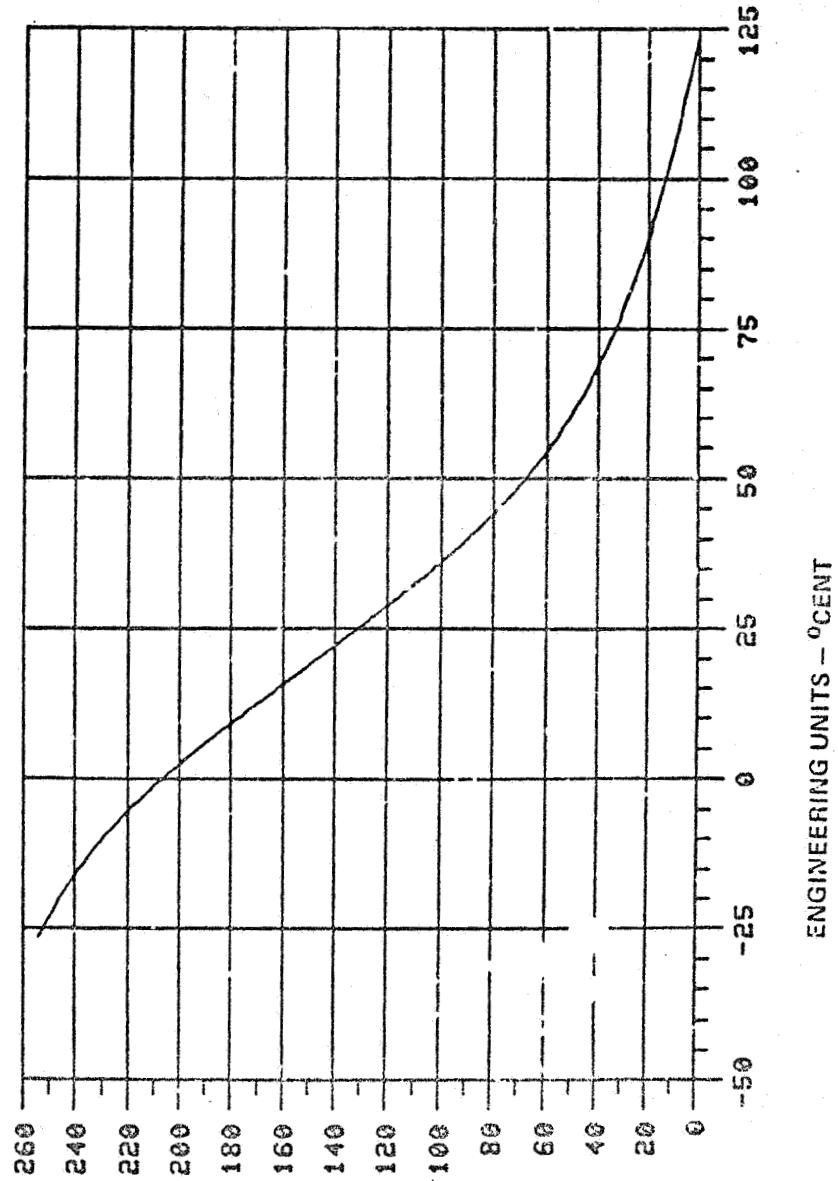


TELEMETRY COUNTS

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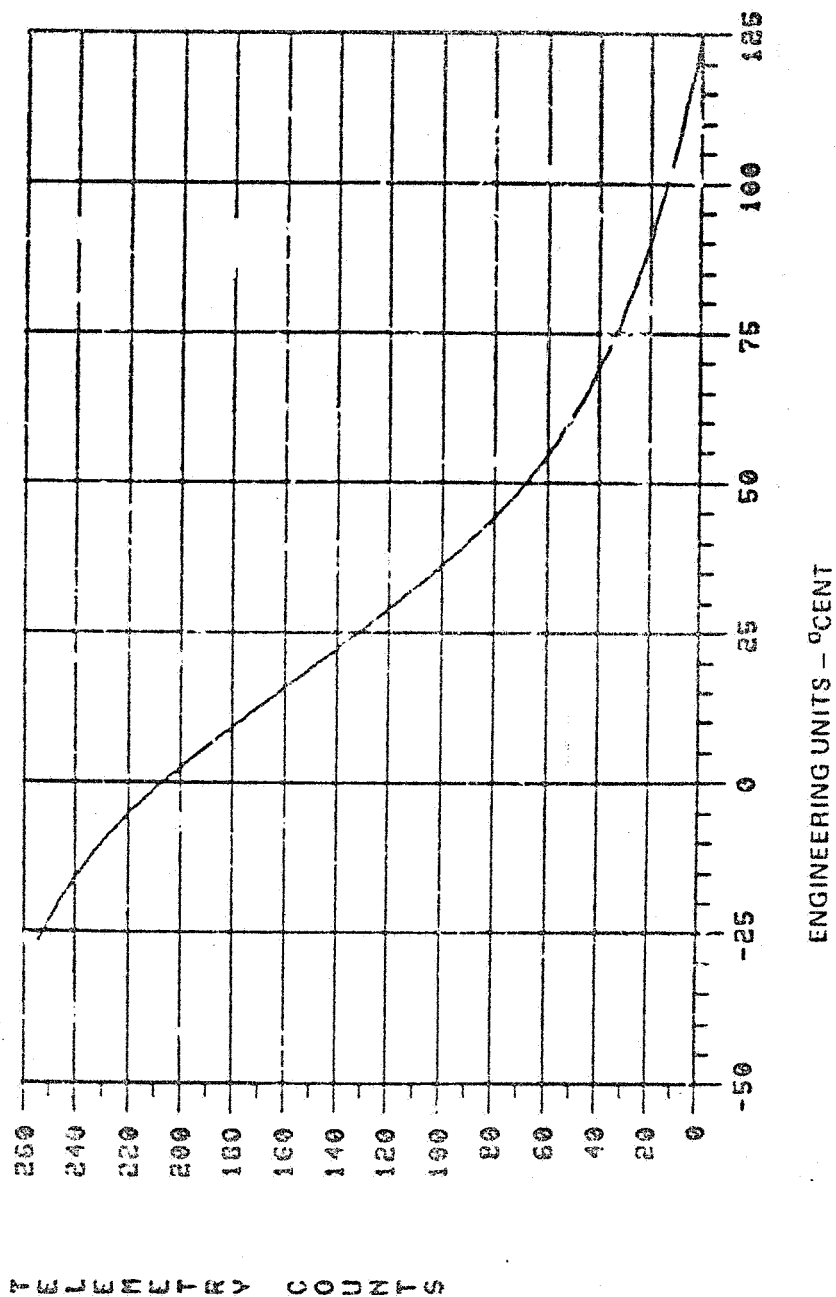
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TELEMETRY COUNTS

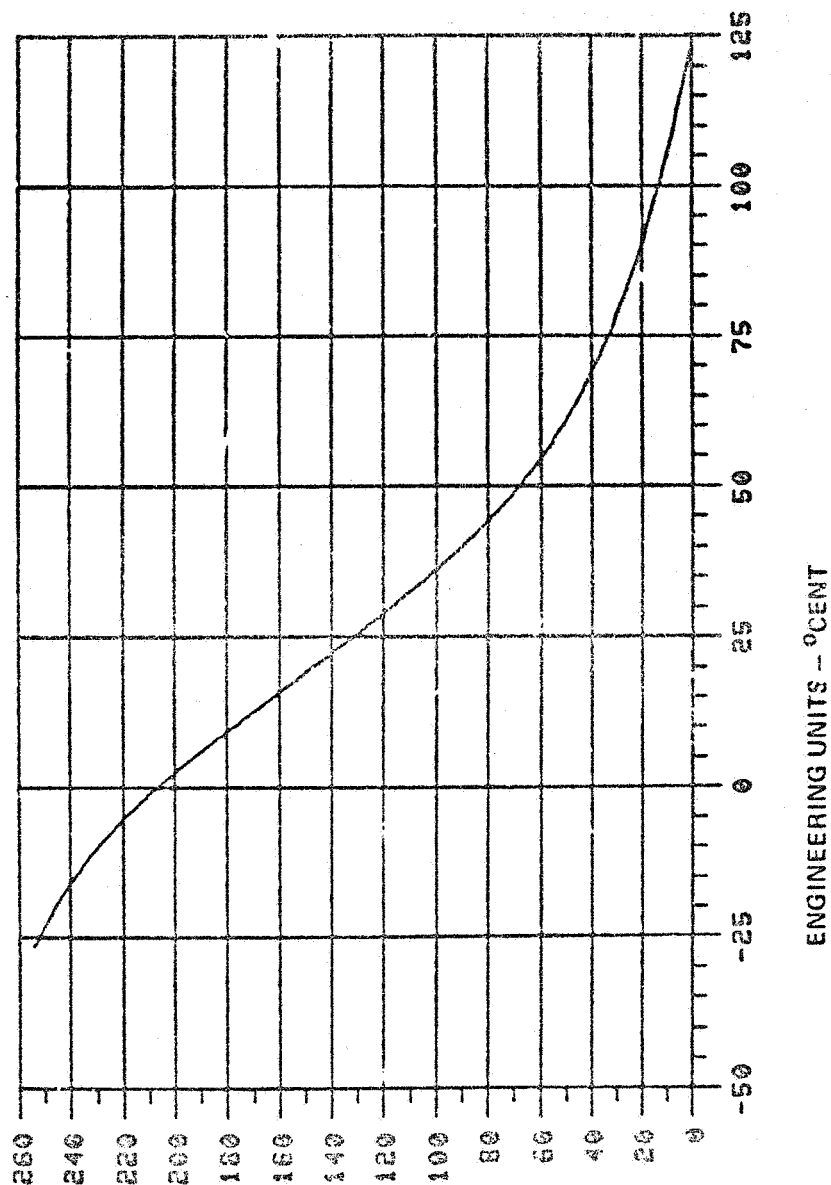
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COUNTS VS ENGINEERING UNITS FOR CTSYNTA



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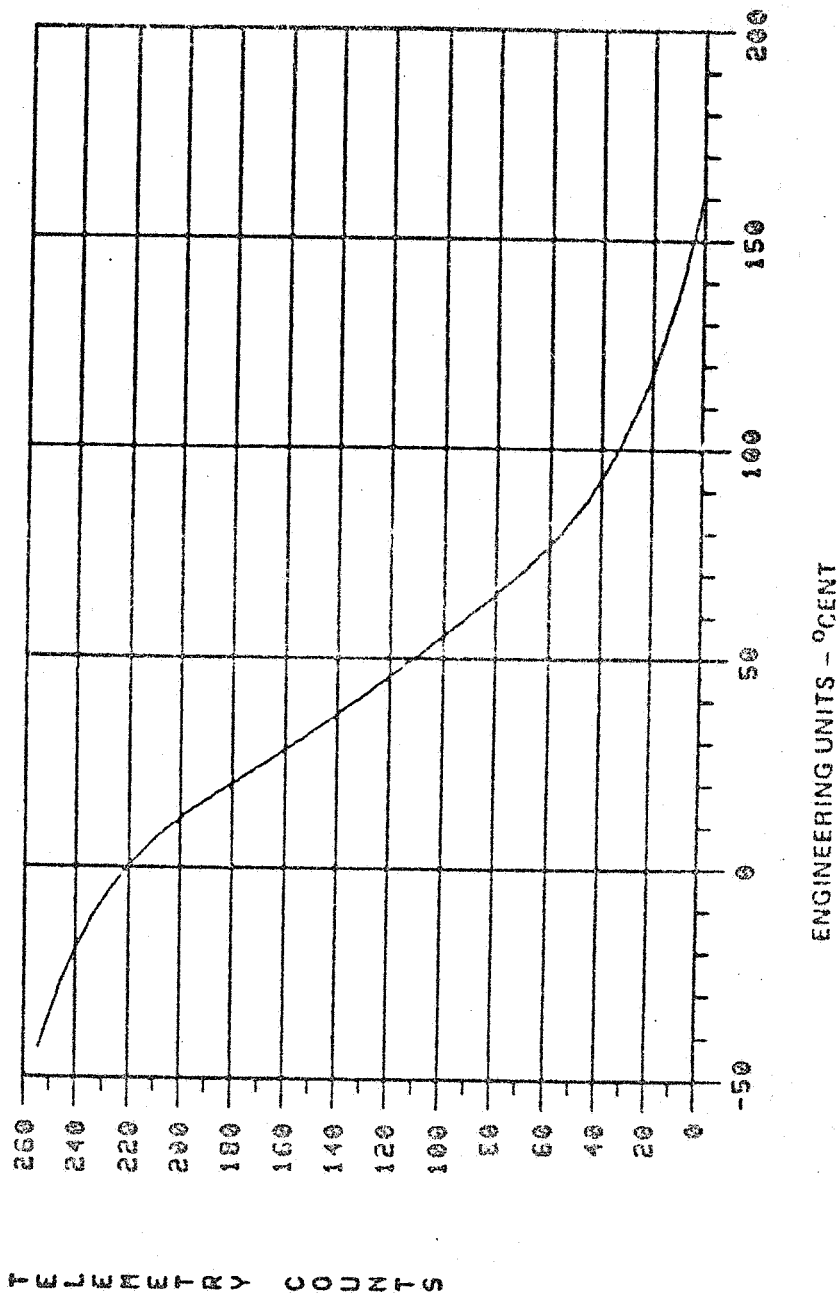
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TELEMETRY COUNTS

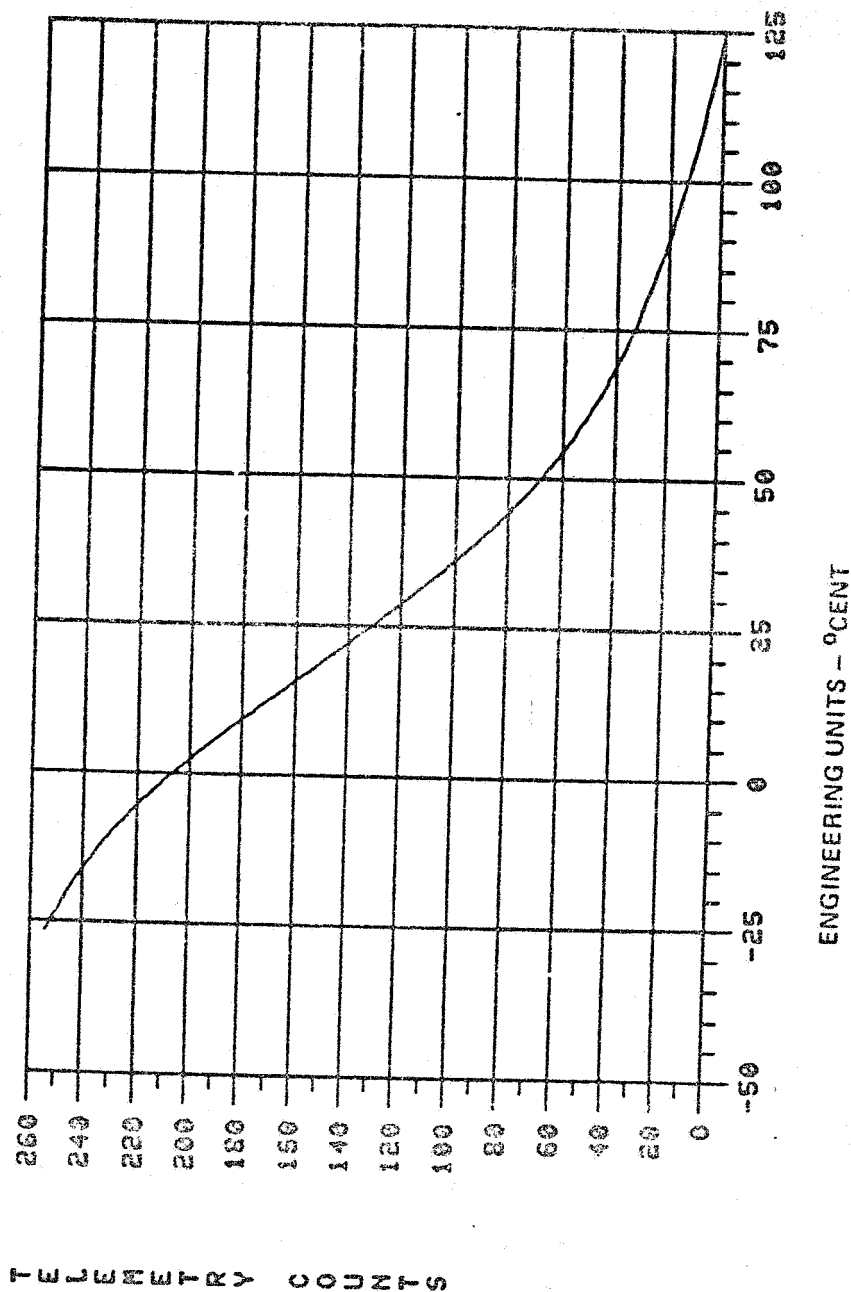
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COUNTS VS ENGINEERING UNITS FOR CTXOUEM



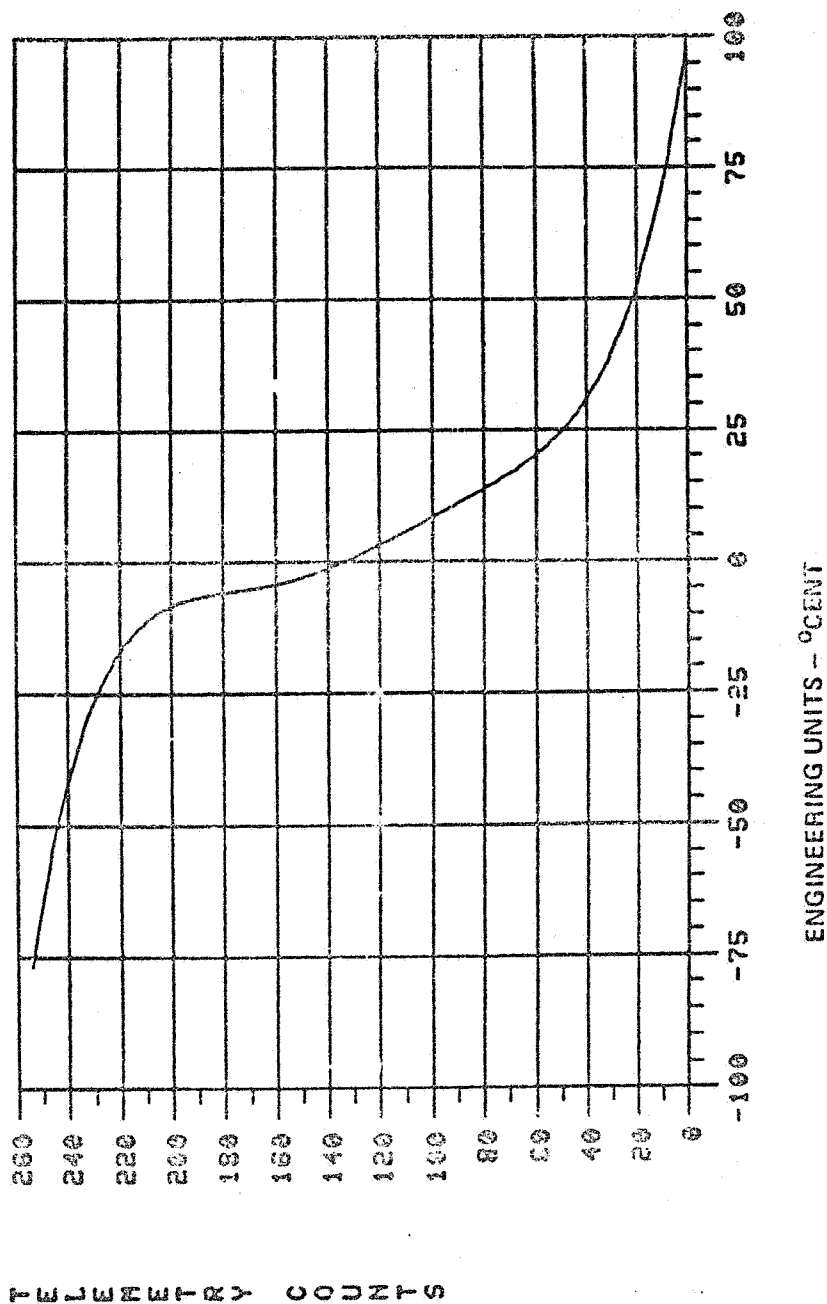
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COUNTS VS ENGINEERING UNITS FOR CTXPAB



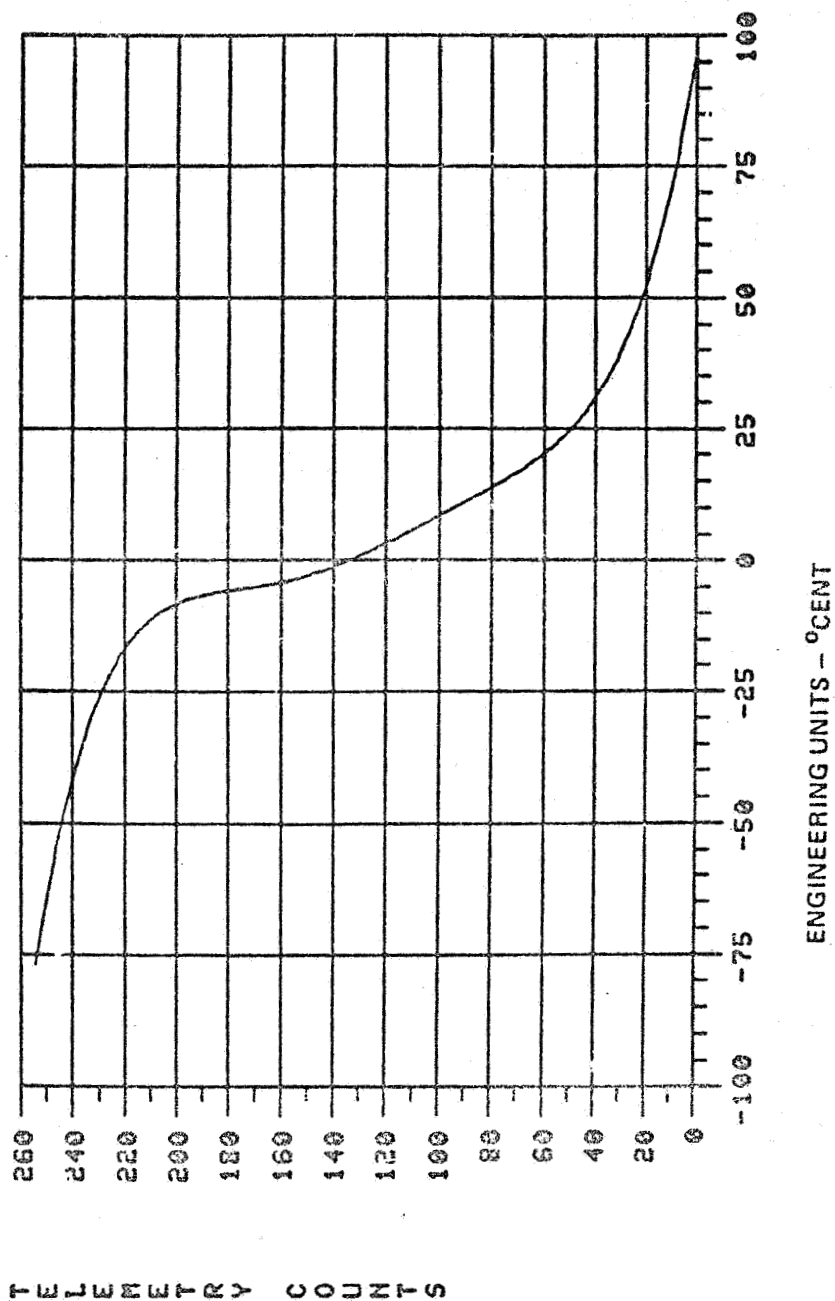
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COUNTS VS ENGINEERING UNITS FOR CTXPAPA



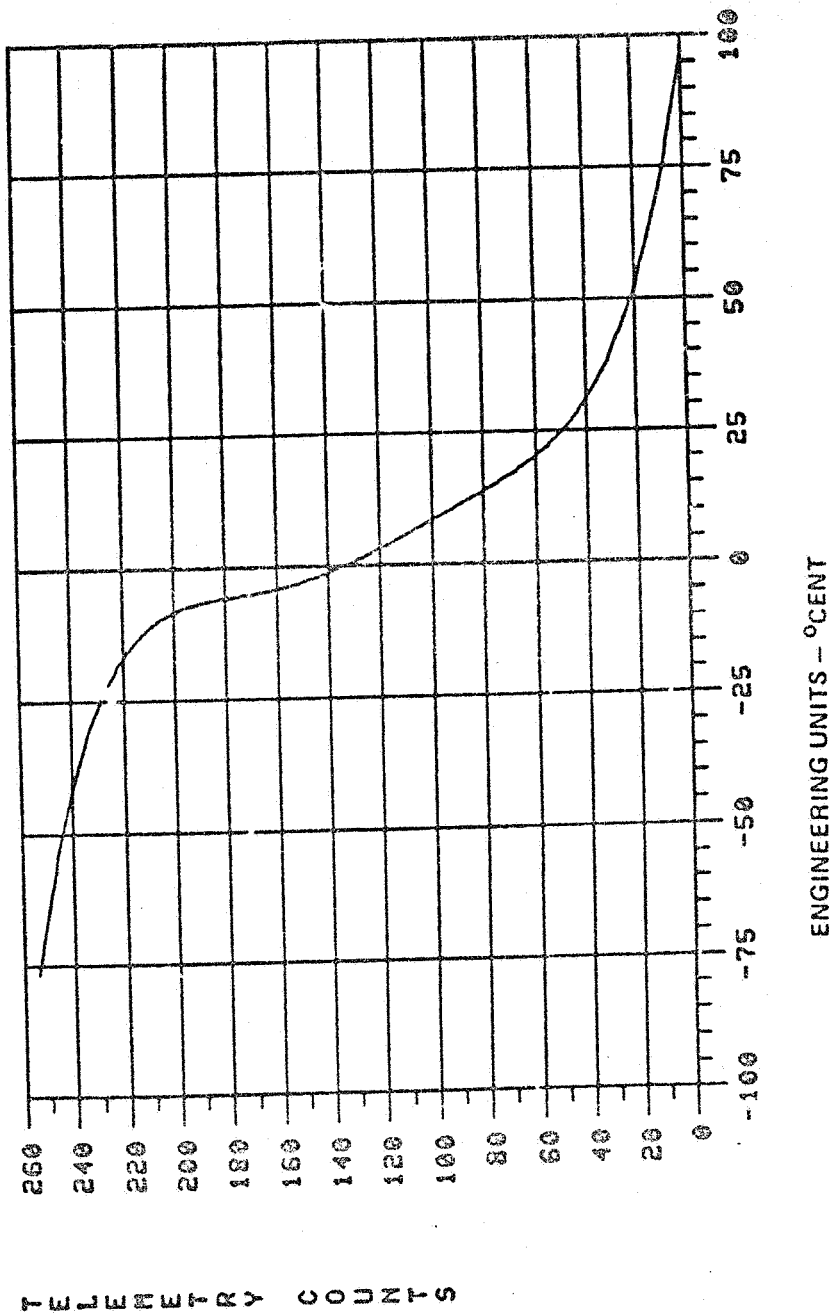
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COUNTS US ENGINEERING UNITS FOR CTXPAXO



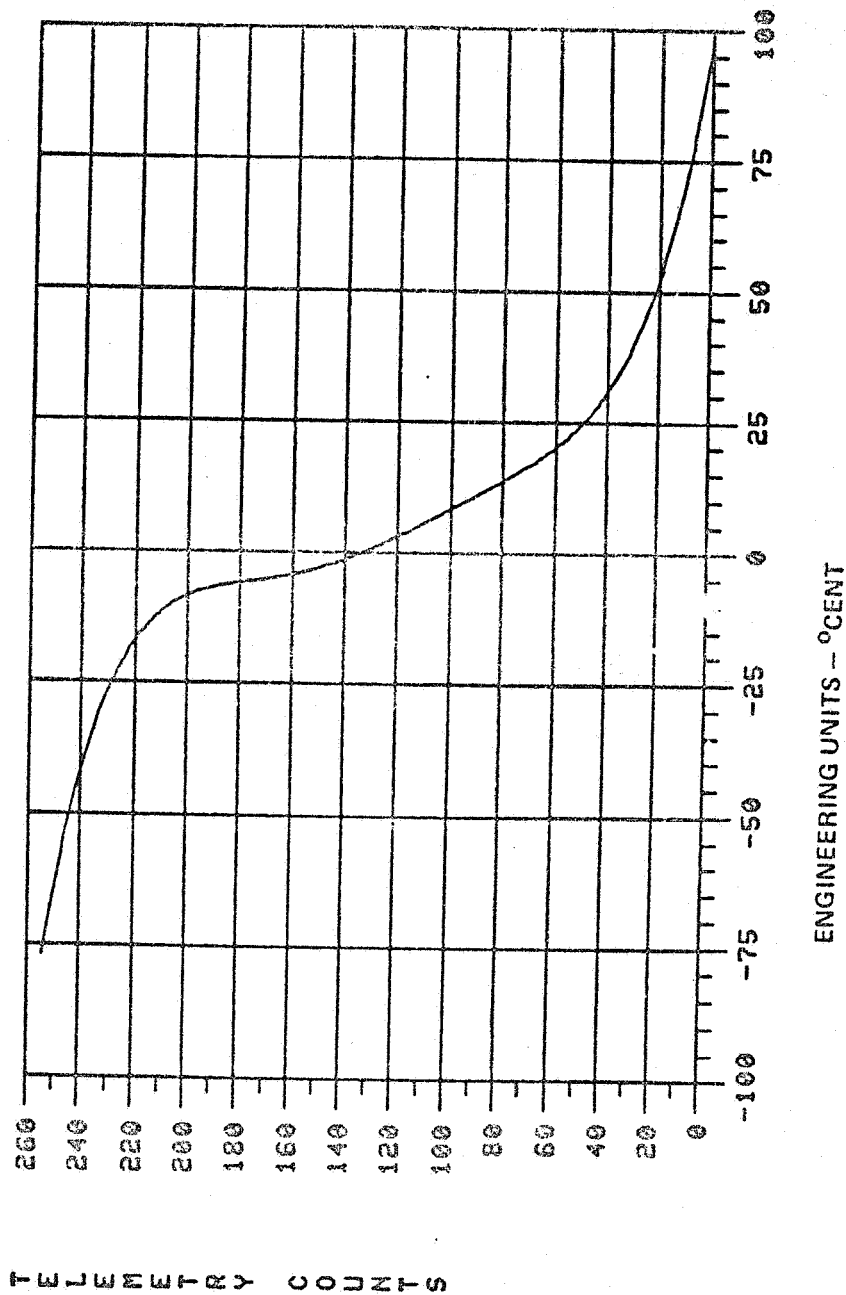
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COUNTS VS ENGINEERING UNITS FOR CTXPBPA



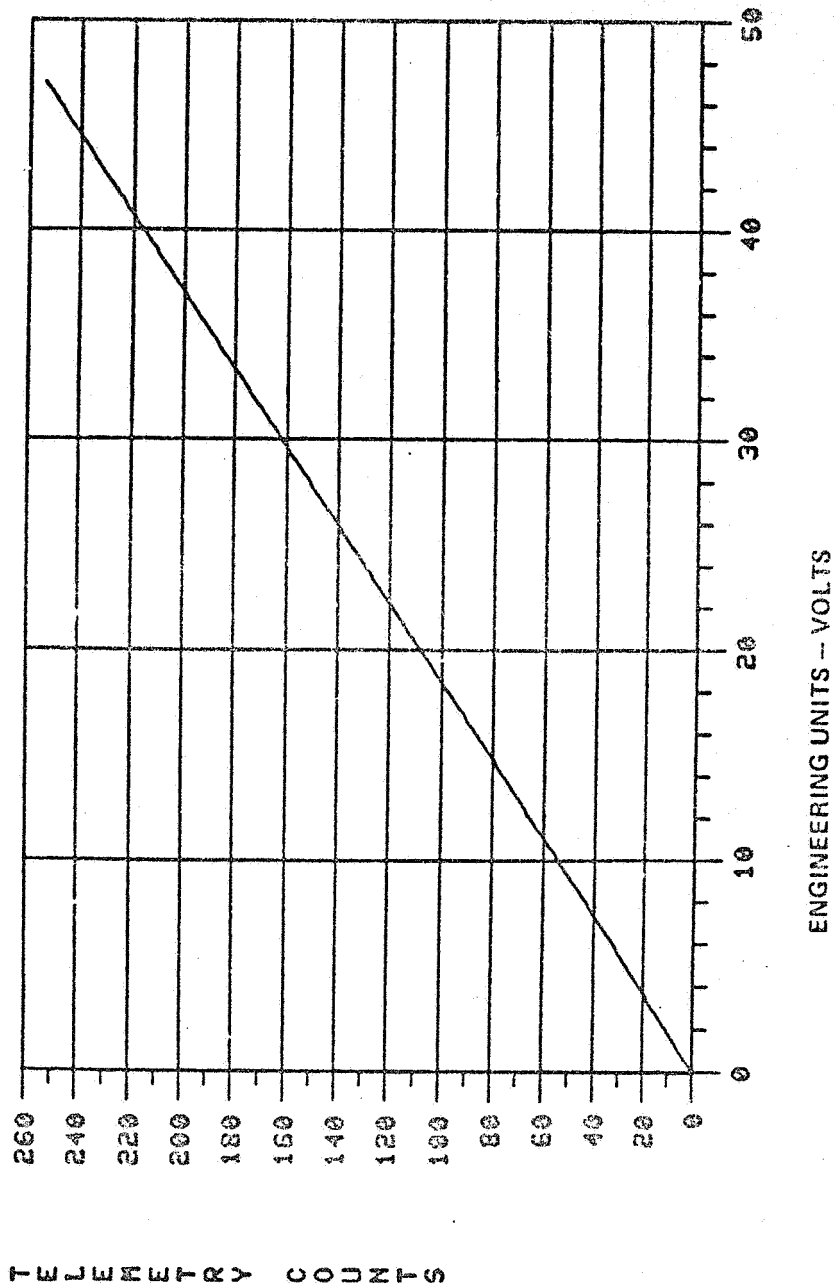
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COUNTS VS ENGINEERING UNITS FOR CTXPBXO



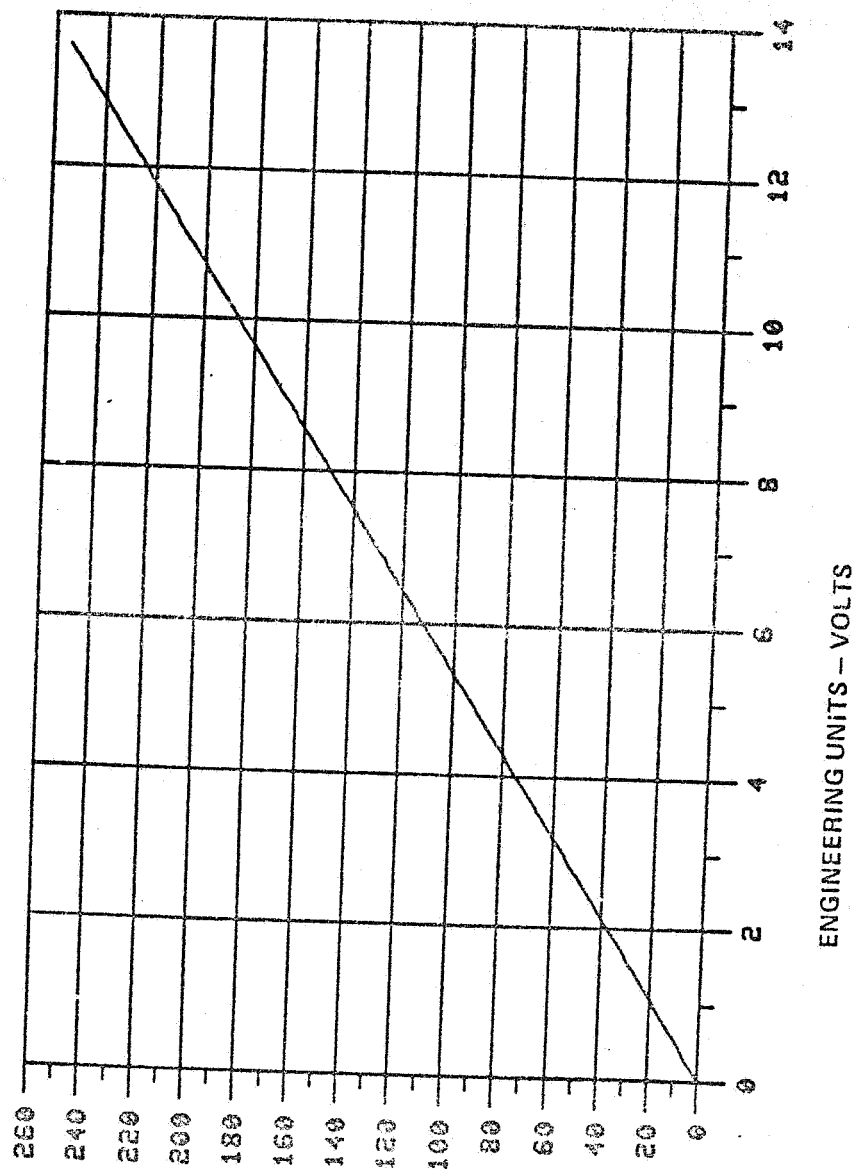
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COUNTS VS ENGINEERING UNITS FOR CUNRG28



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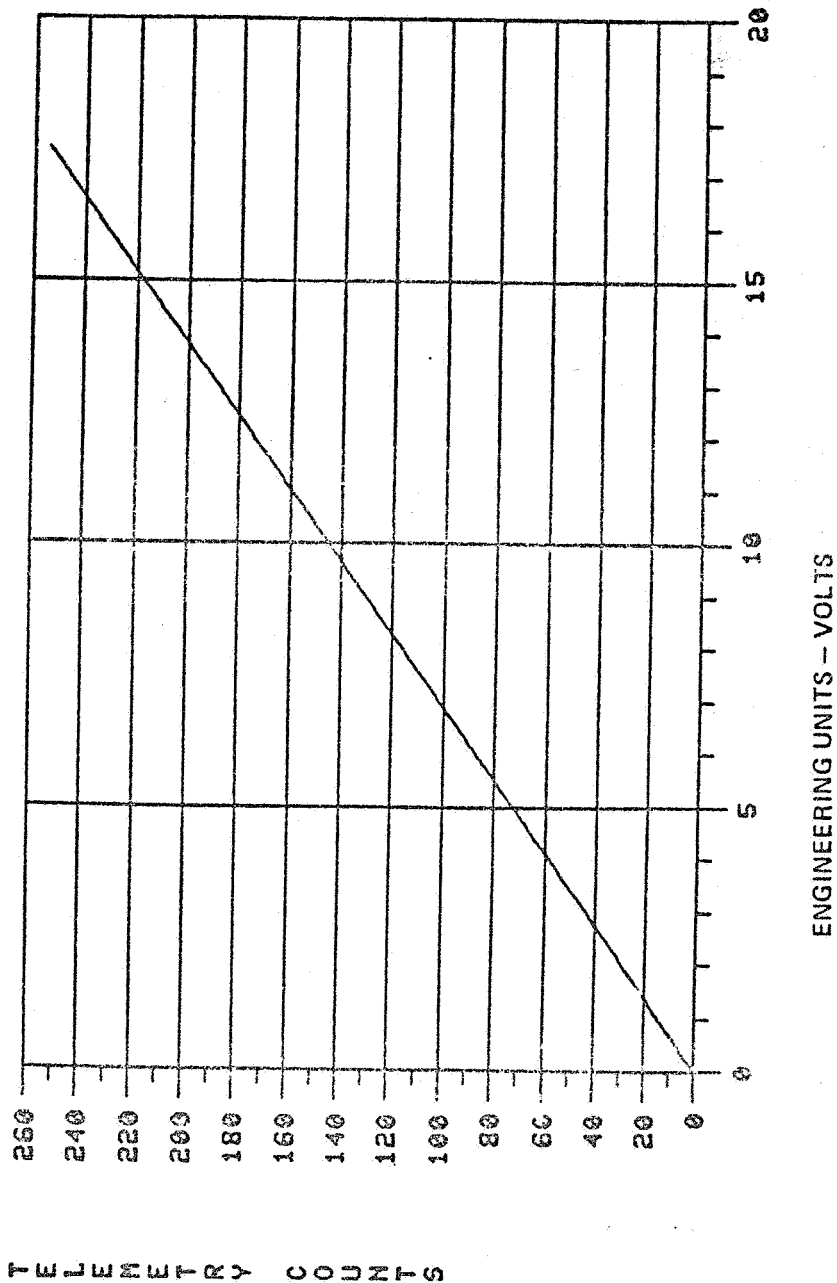
COUNTS VS ENGINEERING UNITS FOR CUEXOSC



TELEMETRY COUNTS

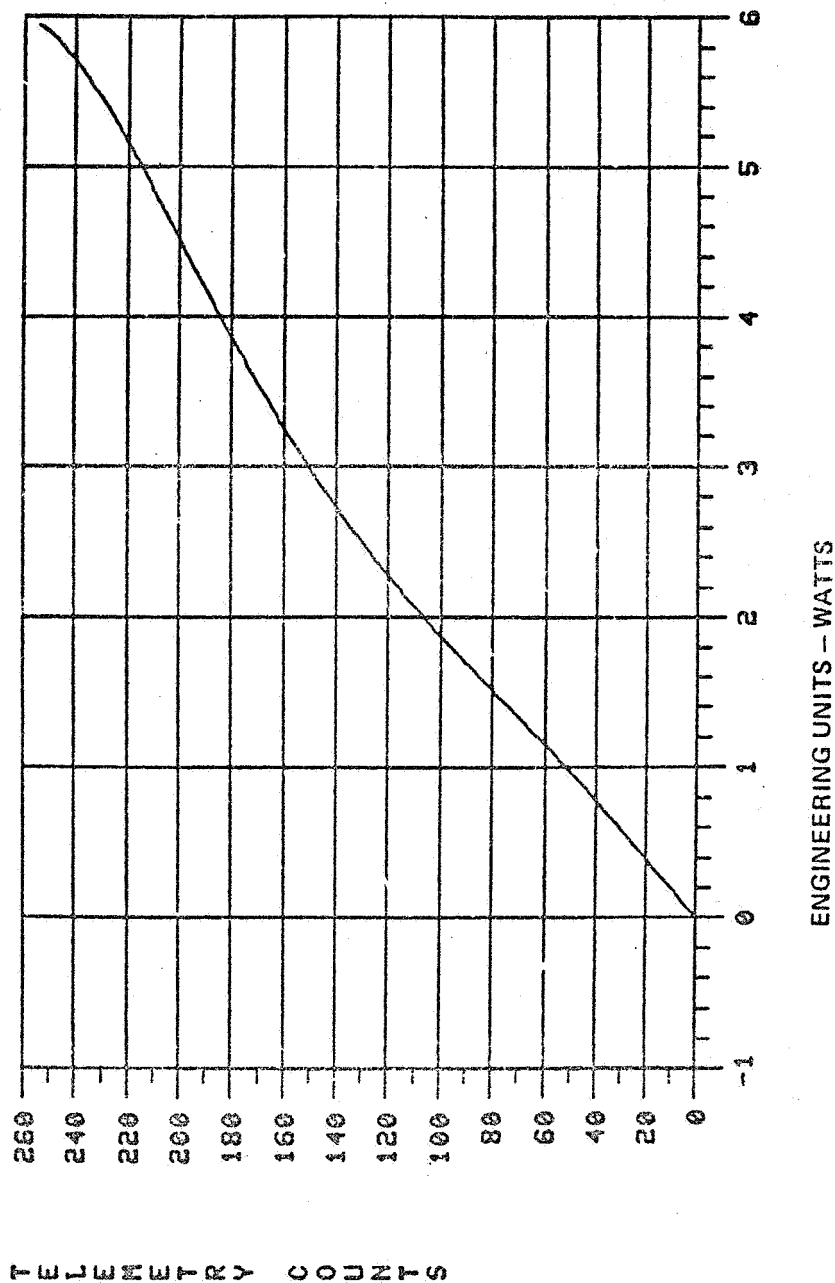
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COUNTS VS ENGINEERING UNITS FOR CUXOVEN



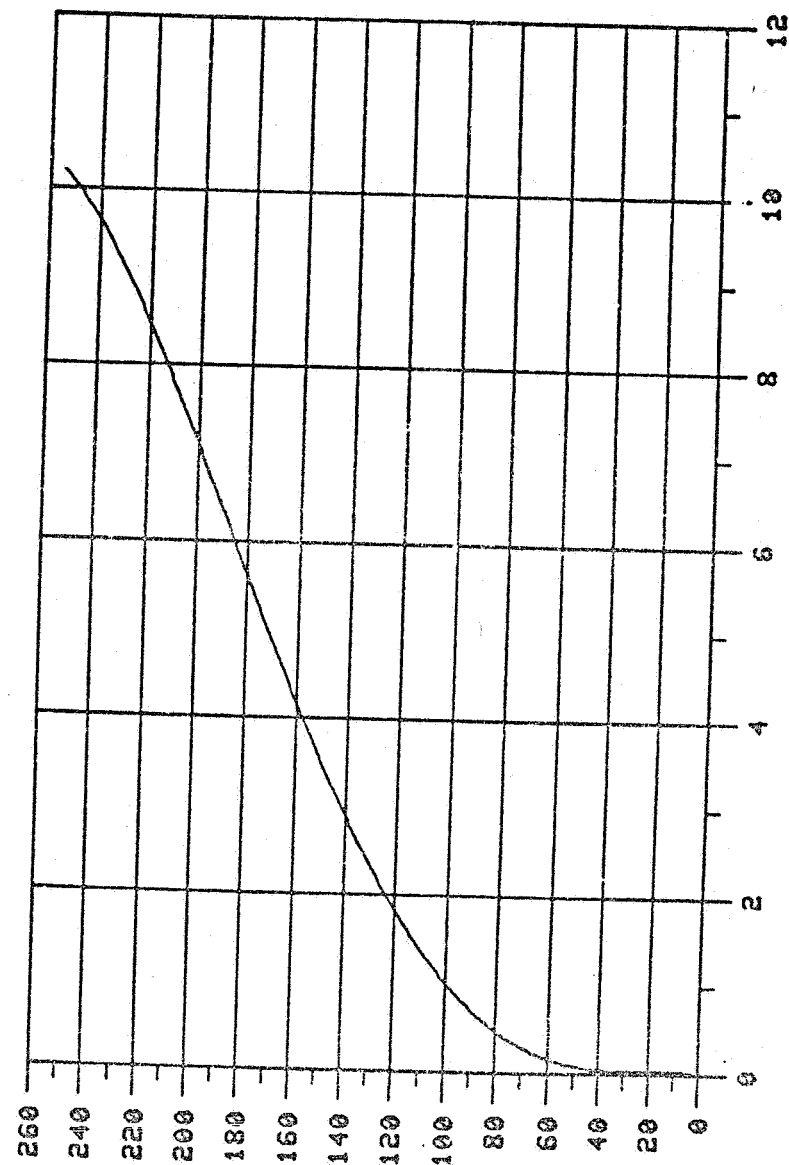
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COUNTS US ENGINEERING UNITS FOR CXPAFUD



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COUNTS VS ENGINEERING UNITS FOR CXPAREU

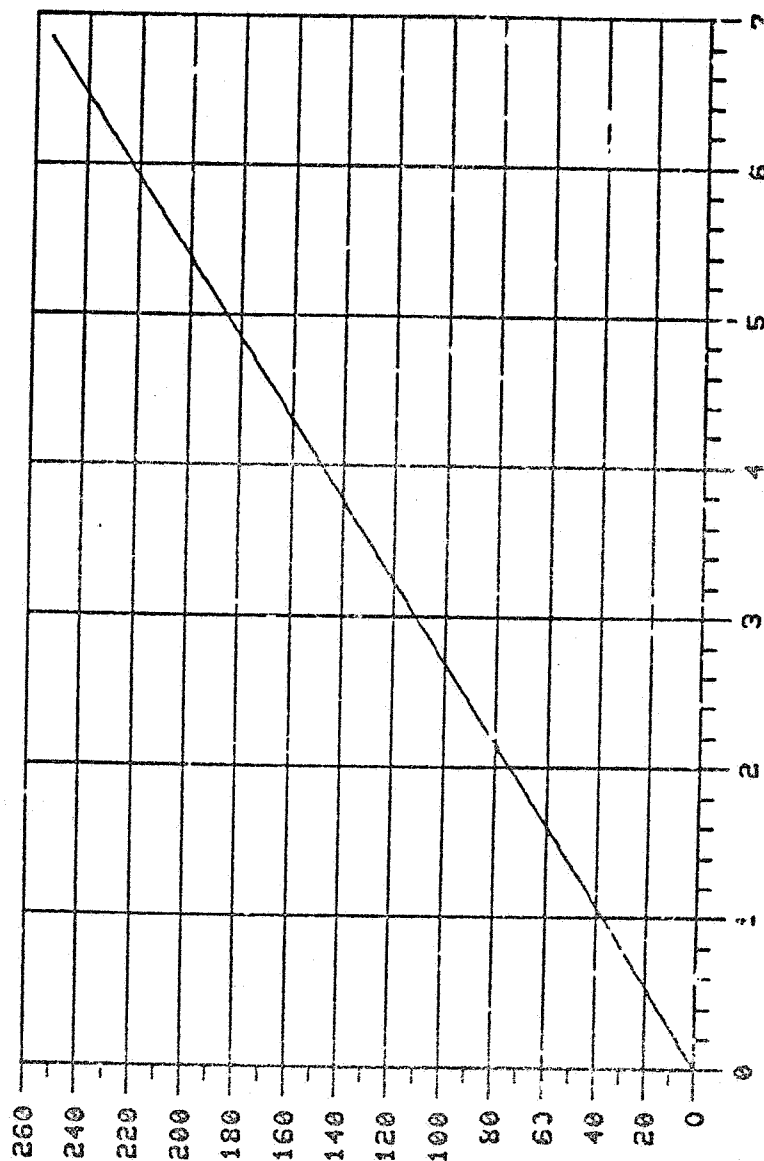


TELEMETRY COUNTS

ENGINEERING UNITS - WATTS

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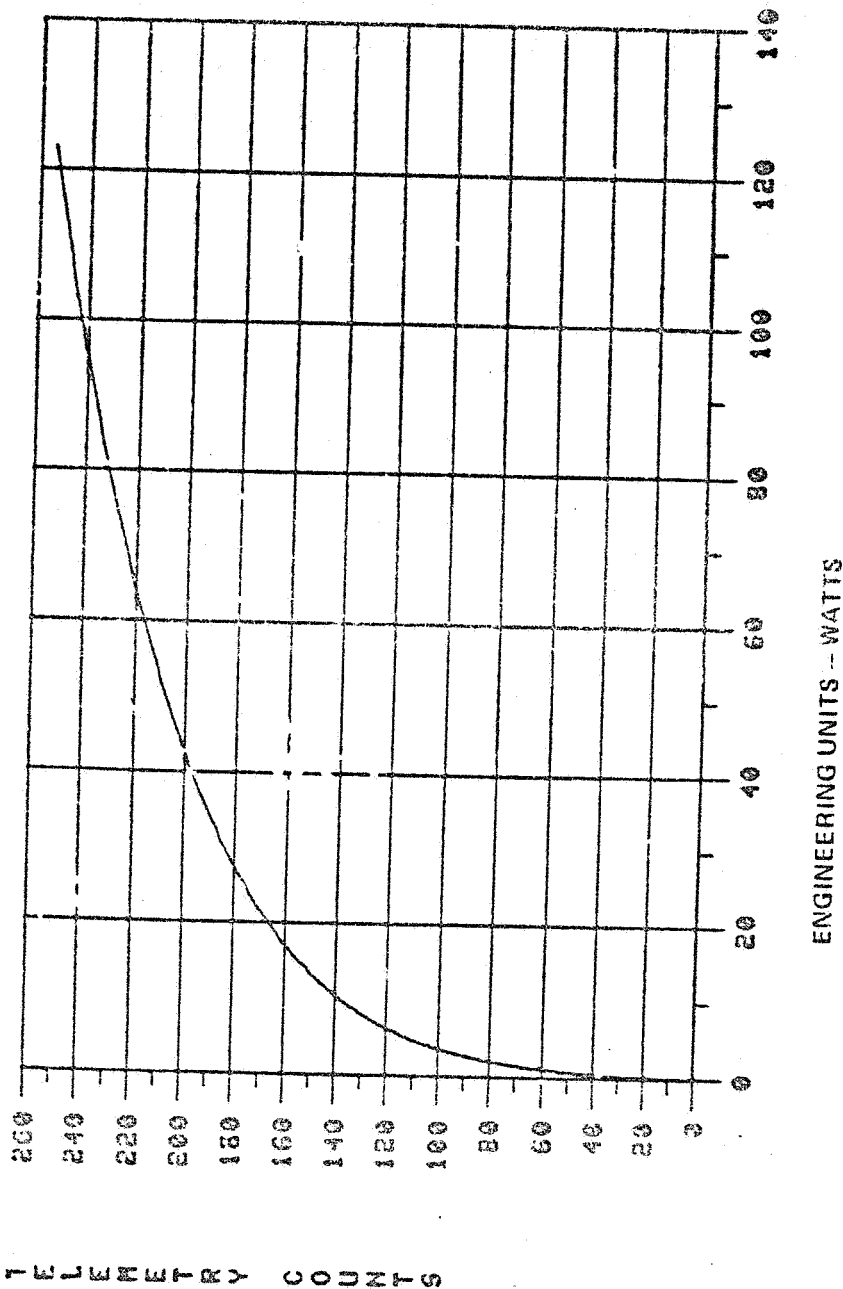


ENGINEERING UNITS - WATTS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR CXPBREV



 RIU CONV. DEF.

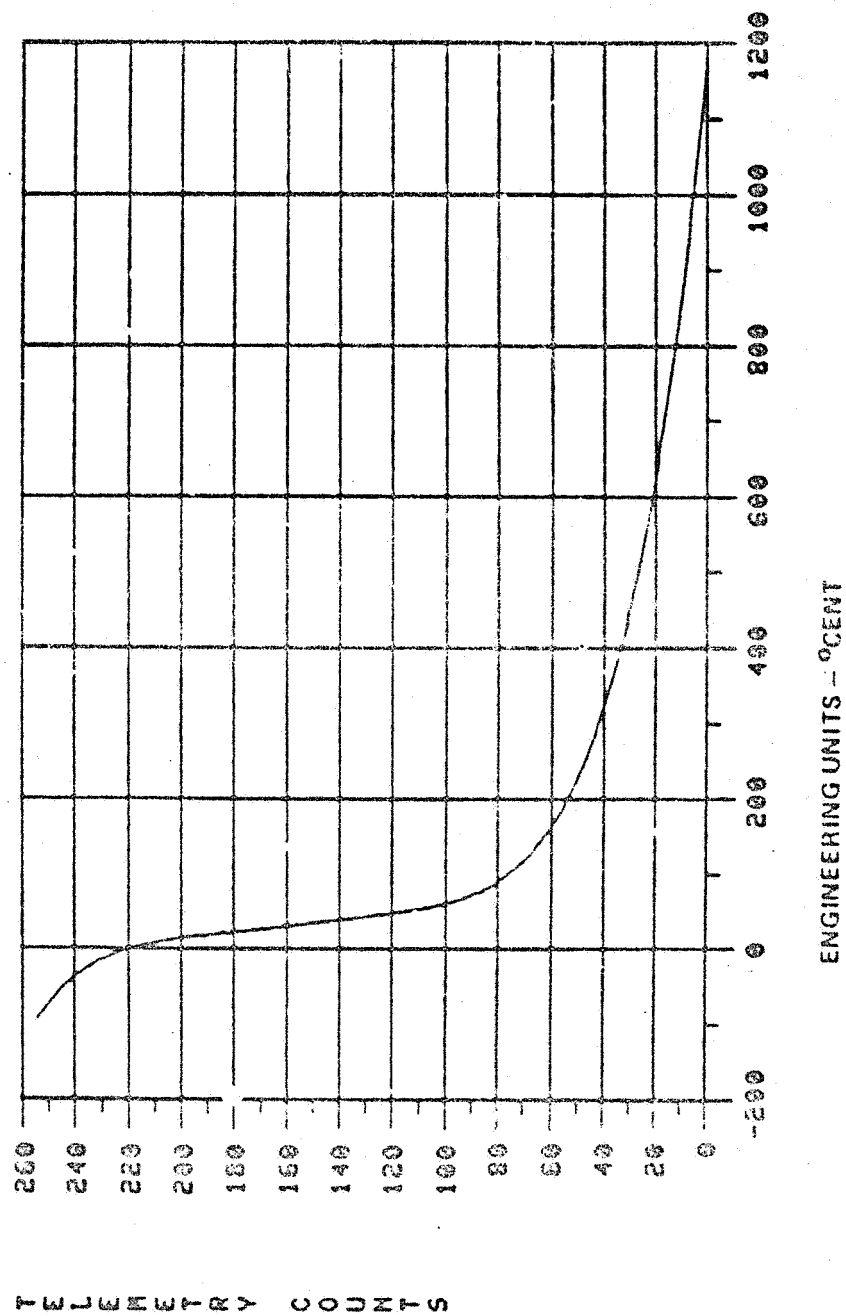
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; RIU POINT DEF.

POINT	RTADS	;ADS TEMP in deg.centigrade
COEFF	RTADS	, .11682E+4, -.35431E+2, .45573E00, -.29525E-2, .95116E-5, -.12177E-7
POINT	RTRIUG	; RIU 06 TEMP in deg. centigrade
COEFF	RTRIUG	, 123.41, -2.073, .02265739, -.0001514293, .5173663E-6, -.7163077E-9
POINT	RTRIUG	; RIU 07 TEMP in deg. centigrade
COEFF	RTRIUG	, 123.41, -2.073, .02265739, -.0001514293, .5173663E-6, -.7163077E-9
POINT	RTRIUG	; RIU 08 TEMP in deg. centigrade
COEFF	RTRIUG	, 123.41, -2.073, .02265739, -.0001514293, .5173663E-6, -.7163077E-9

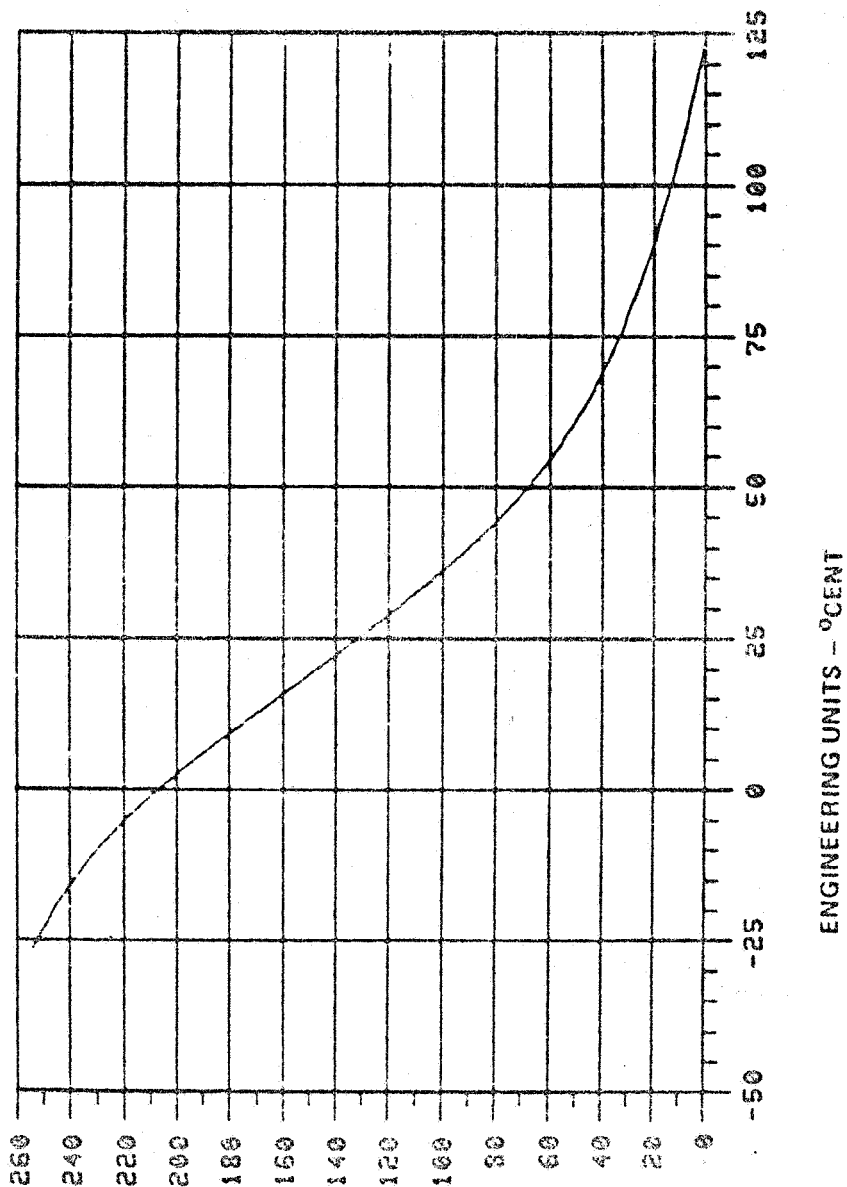
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COUNTS VS ENGINEERING UNITS FOR RTADS



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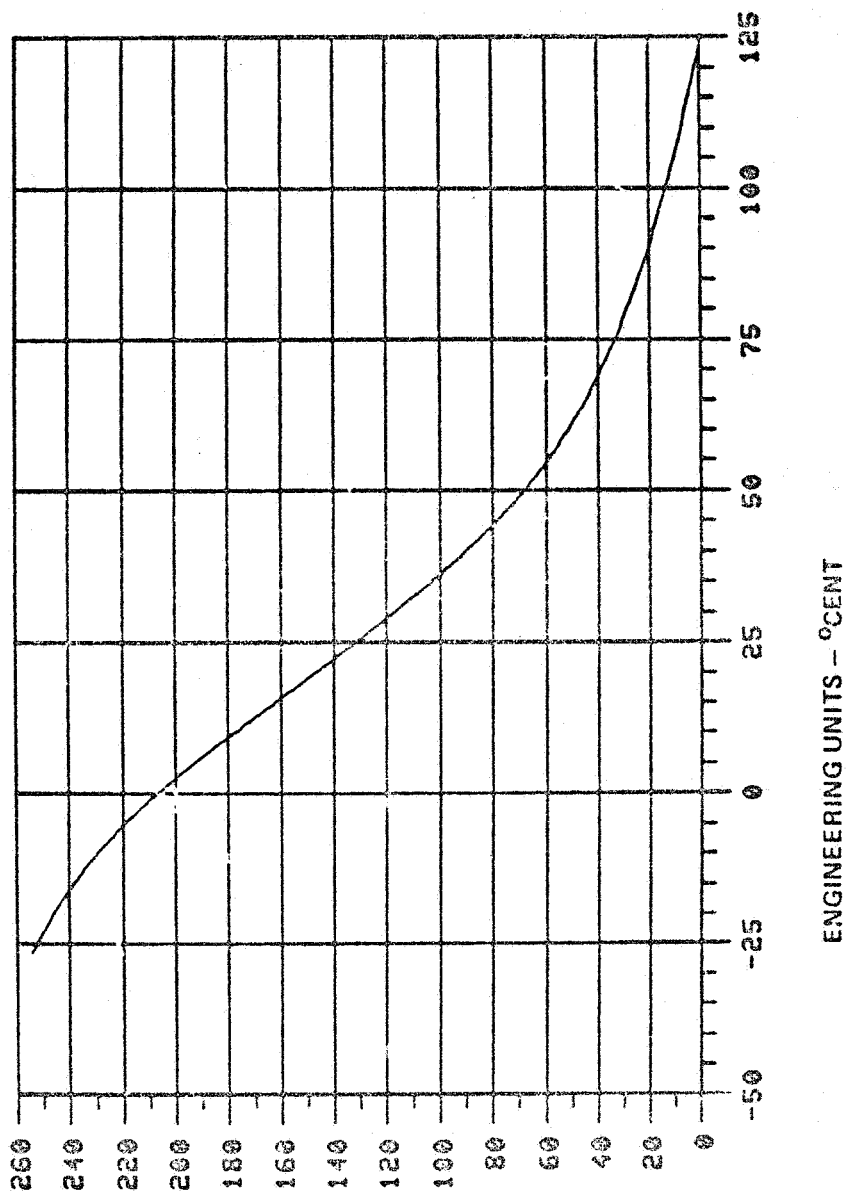
COUNTS US ENGINEERING UNITS FOR RTRIUS



TELEMETRY COUNTS

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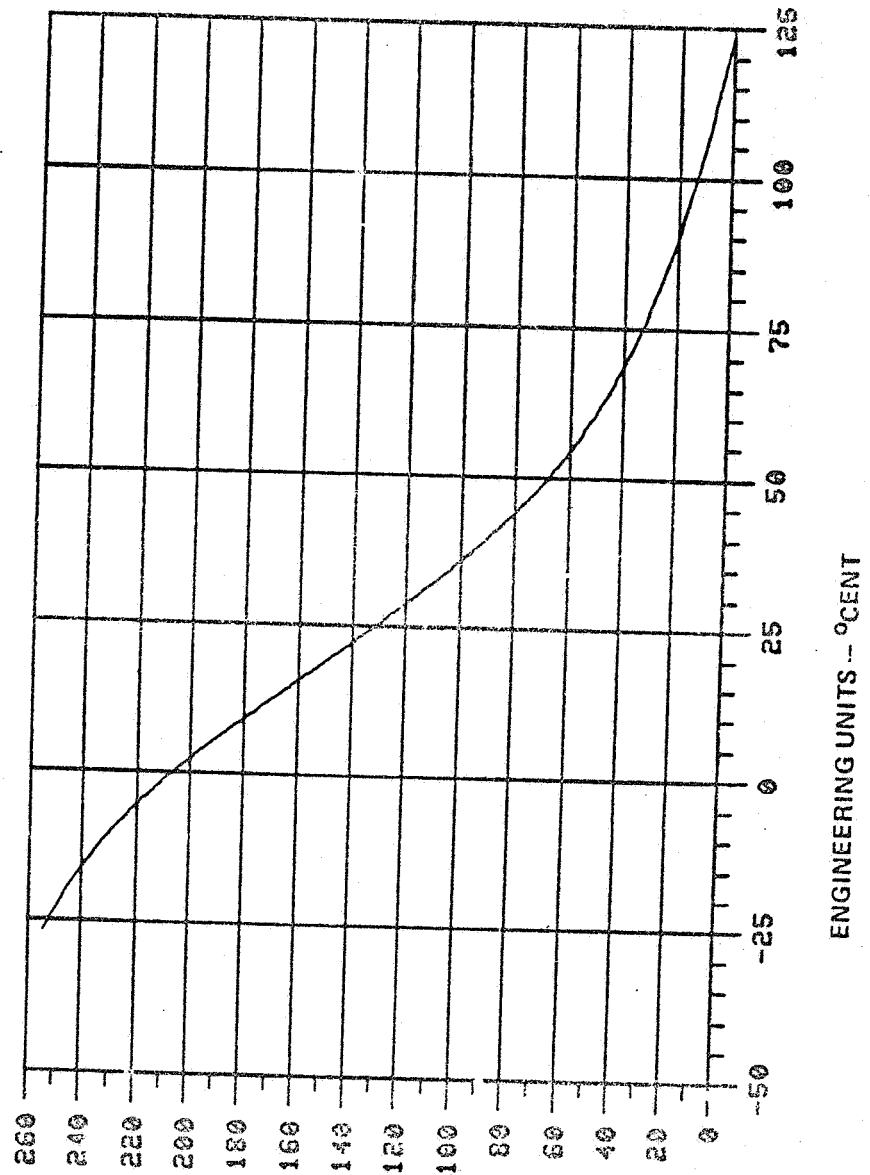
COUNTS VS ENGINEERING UNITS FOR RTRIU7



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR RTRIUS



TELEMETRY COUNTS

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APPENDIX A.5

NARROW BAND TAPE RECORDER (NBTR) TELEMETRY CALIBRATION DATA

The calibration curve coefficients for each telemetry point are controlled in the data base. They are listed along with the unit section number where the sensor is located. Tables showing the coefficients may be obtained from the data base administrator. The tables show telemetry volts (counts) vs. engineering units.

LSD-WPC-263

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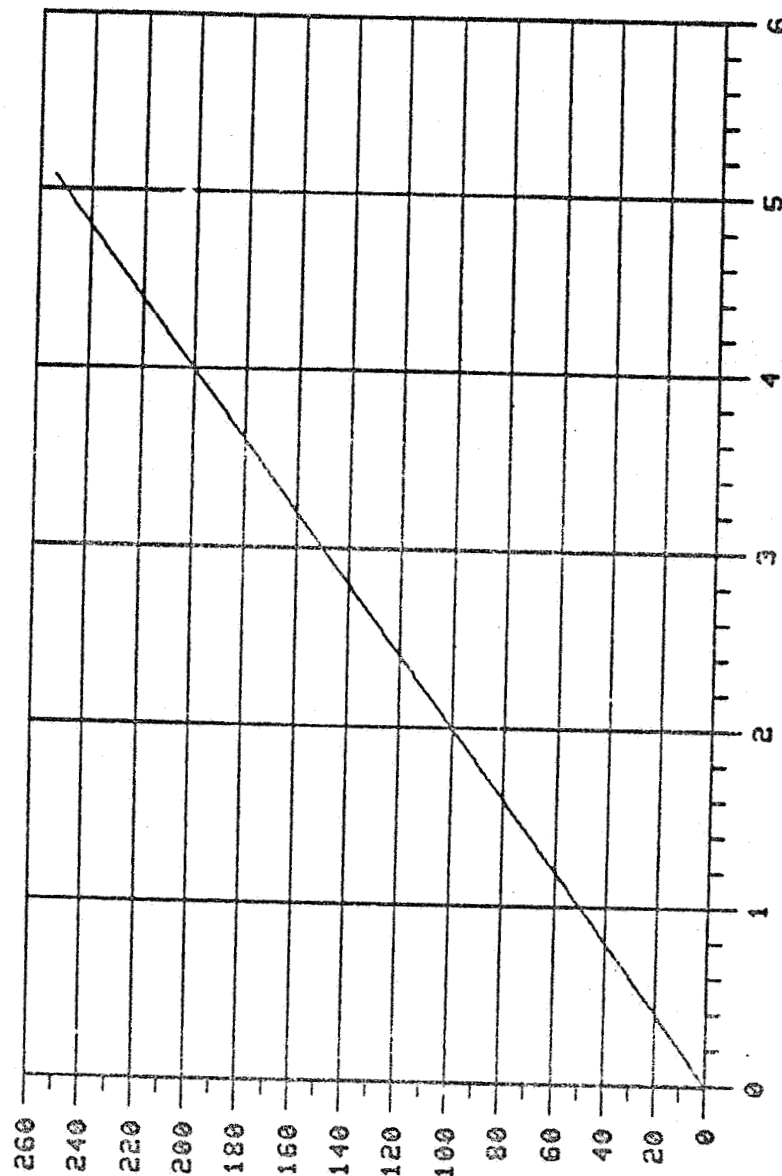
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;*****
;
;      NBTR CONV. DEF.
;
;*****
;
;      NBTR POINT      DEF.
POINT  N1ASBOT          ; SECONDARY BOT SENSOR in
COEFF  N1ASBOT          , 0,0.02
POINT  N1ASEOT          ; SECONDARY EOT SENSOR in
COEFF  N1ASEOT          , 0,.02
POINT  N1MTRI           ; MOTOR CURRENT in
COEFF  N1MTRI           , 0,0.02
POINT  N1P1ENC          ; ENCODER SENSOR PRIMARY NO. 1 in
COEFF  N1P1ENC          , 0,.02
POINT  N1P2ENC          ; ENCODER SENSOR PRIMARY NO. 2 in
COEFF  N1P2ENC          , 0,.02
POINT  N1P3ENC          ; ENCODER SENSOR PRIMARY NO. 3 in
COEFF  N1P3ENC          , 0,.02
POINT  N1PREEL          ; REEL PRIMARY SENSOR in
COEFF  N1PREEL          , 0,0.02
POINT  N1PTACH          ; TACHOMETER SENSOR - PRIMARY in
COEFF  N1PTACH          , 0,.02
POINT  N1PWR5V          ; +5V POWER in volts
COEFF  N1PWR5V          , 0,0.2000E-01
POINT  N1S1ENC          ; ENCODER SENSOR SECONDARY NO. 1 in
COEFF  N1S1ENC          , 0,.02
POINT  N1S2ENC          ; ENCODER SENSOR SECONDARY NO. 2 in
COEFF  N1S2ENC          , 0,.02
POINT  N1S3ENC          ; ENCODER SENSOR SECONDARY NO. 3 in
COEFF  N1S3ENC          , 0,.02
POINT  N1SPEED          ; MOTOR SPEED in
COEFF  N1SPEED          , -3.0,0.144
POINT  N1SREEL          ; REEL REDUNDANT SENSOR in
COEFF  N1SREEL          , 0,0.02
POINT  N1STACH          ; TACHOMETER SENSOR - SECONDARY in
COEFF  N1STACH          , 0,.02
POINT  N1SVERR          ; RECORDER NO. 1 SERVO ERROR in
COEFF  N1SVERR          , -9.091 0.2613
POINT  N2ASBOT          ; SECONDARY BOT SENSOR in
COEFF  N2ASBOT          , 0,.02
POINT  N2ASEOT          ; SECONDARY EOT SENSOR in
COEFF  N2ASEOT          , 0,.02
POINT  N2MTRI           ; MOTOR CURRENT in
COEFF  N2MTRI           , 0,0.02
POINT  N2P1ENC          ; ENCODER SENSOR PRIMARY NO. 1 in
COEFF  N2P1ENC          , 0,.02
POINT  N2P2ENC          ; ENCODER SENSOR PRIMARY NO. 2 in
COEFF  N2P2ENC          , 0,.02
POINT  N2P3ENC          ; ENCODER SENSOR PRIMARY NO. 3 in
COEFF  N2P3ENC          , 0,.02
POINT  N2PREEL          ; REEL PRIMARY SENSOR in
COEFF  N2PREEL          , 0,.02
POINT  N2PTACH          ; TACHOMETER SENSOR - PRIMARY in
COEFF  N2PTACH          , 0,.02

```

POINT	N2PWR5V	; +5V POWER in volts
COEFF	N2PWR5V	, 0,0.02
POINT	N2S1ENC	; ENCODER SENSOR SECONDARY NO. 1 in
COEFF	N2S1ENC	, 0,.02
POINT	N2S2ENC	; ENCODER SENSOR SECONDARY NO. 2 in
COEFF	N2S2ENC	, 0,.02
POINT	N2S3ENC	; ENCODER SENSOR SECONDARY NO. 3 in
COEFF	N2S3ENC	, 0,.02
POINT	N2SPEED	; MOTOR SPEED in
COEFF	N2SPEED	, -3.0,0.144
POINT	N2SREEL	; REEL REDUNDANT SENSOR in
COEFF	N2SREEL	, 0,.02
POINT	N2STACH	; TACHOMETER SENSOR - SECONDARY in
COEFF	N2STACH	, 0,.02
POINT	N2SVERR	; RECORDER NO. 2 SERVO ERROR in
COEFF	N2SVERR	, -9.091,0.2613

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COUNTS VS ENGINEERING UNITS FOR NIASBOT

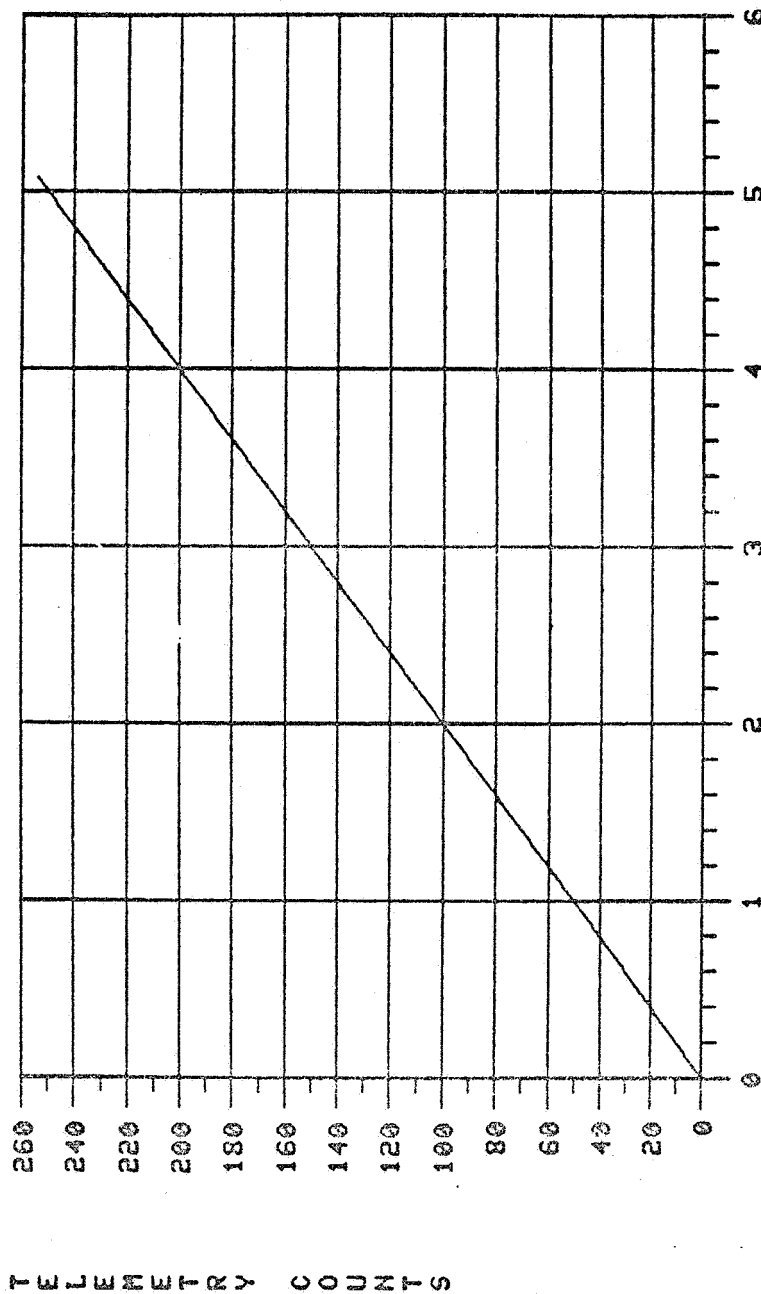


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

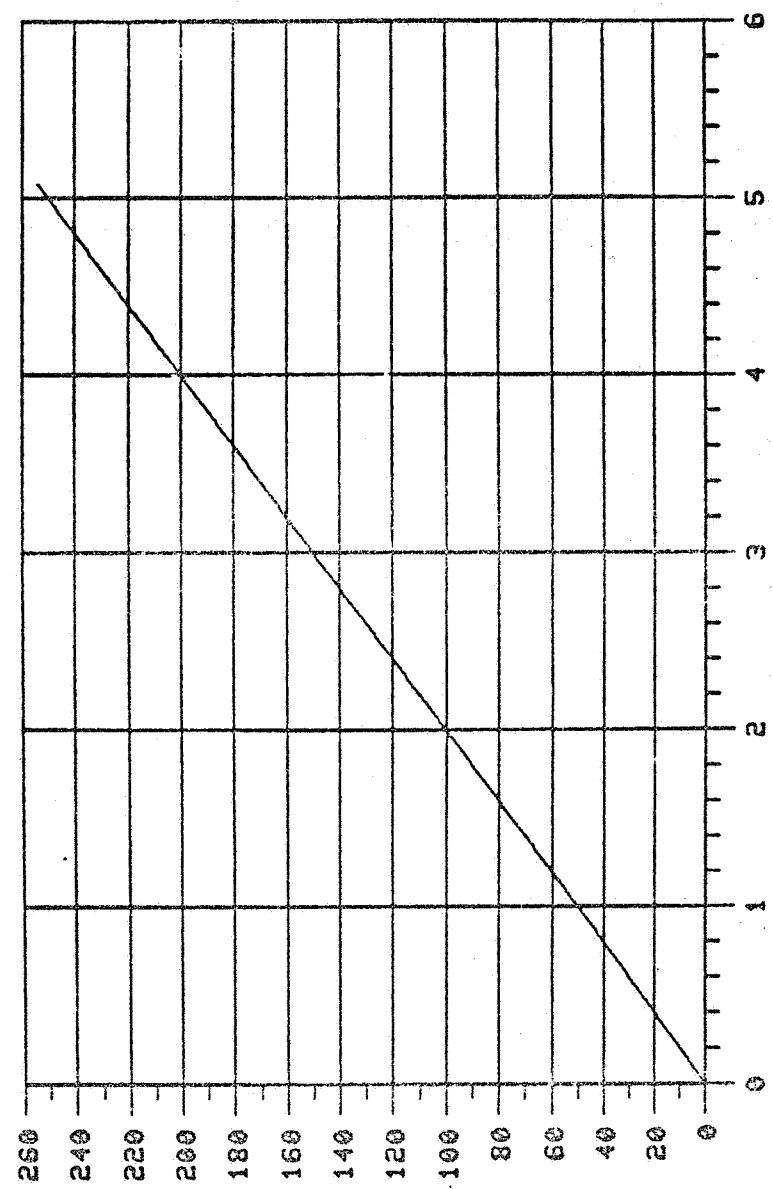
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COUNTS VS ENGINEERING UNITS FOR NIASEOT



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COUNTS VS ENGINEERING UNITS FOR NIMTRI

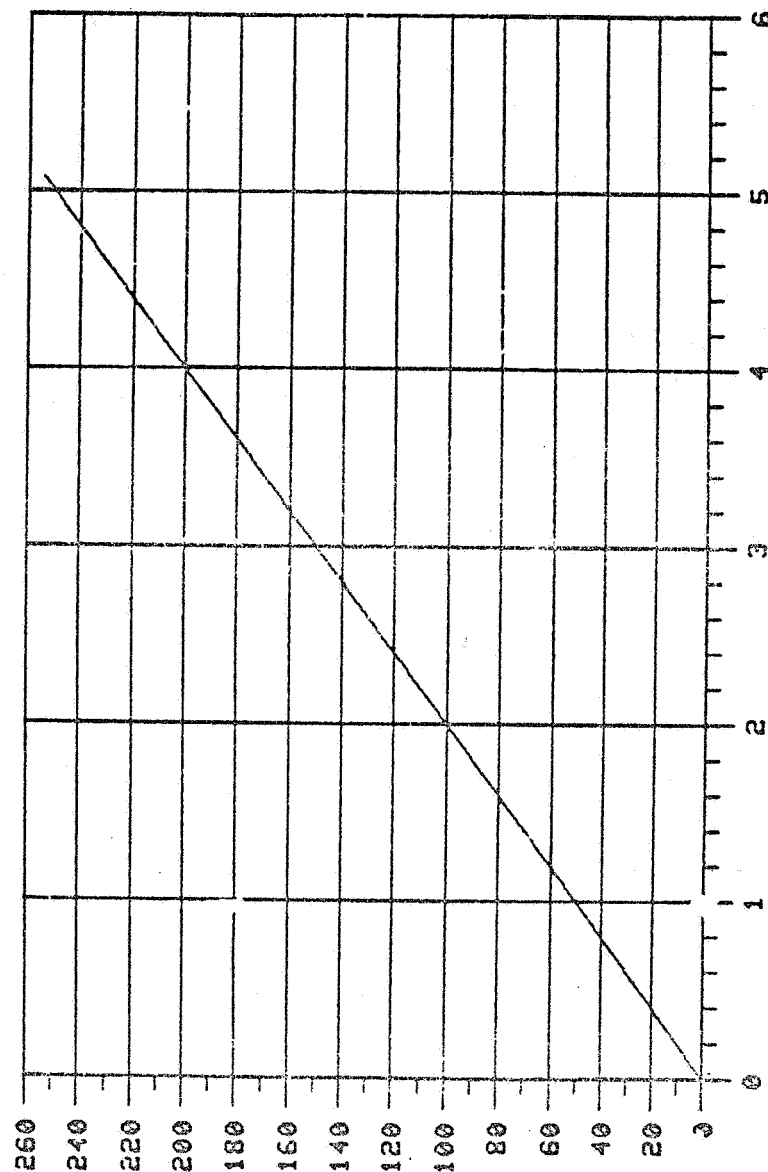


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR N1PIENC

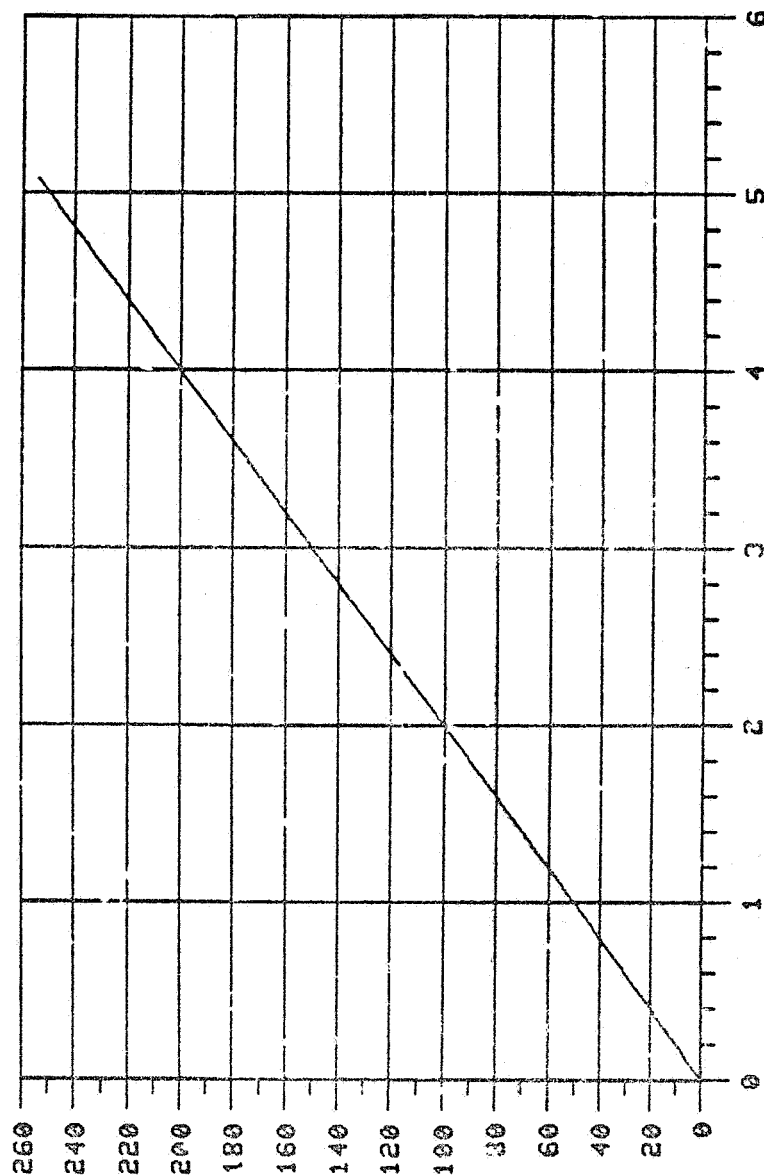


TELEMETRY COUNTS

ENGINEERING UNITS - VOLTS

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COUNTS VS ENGINEERING UNITS FOR NIP2ENC

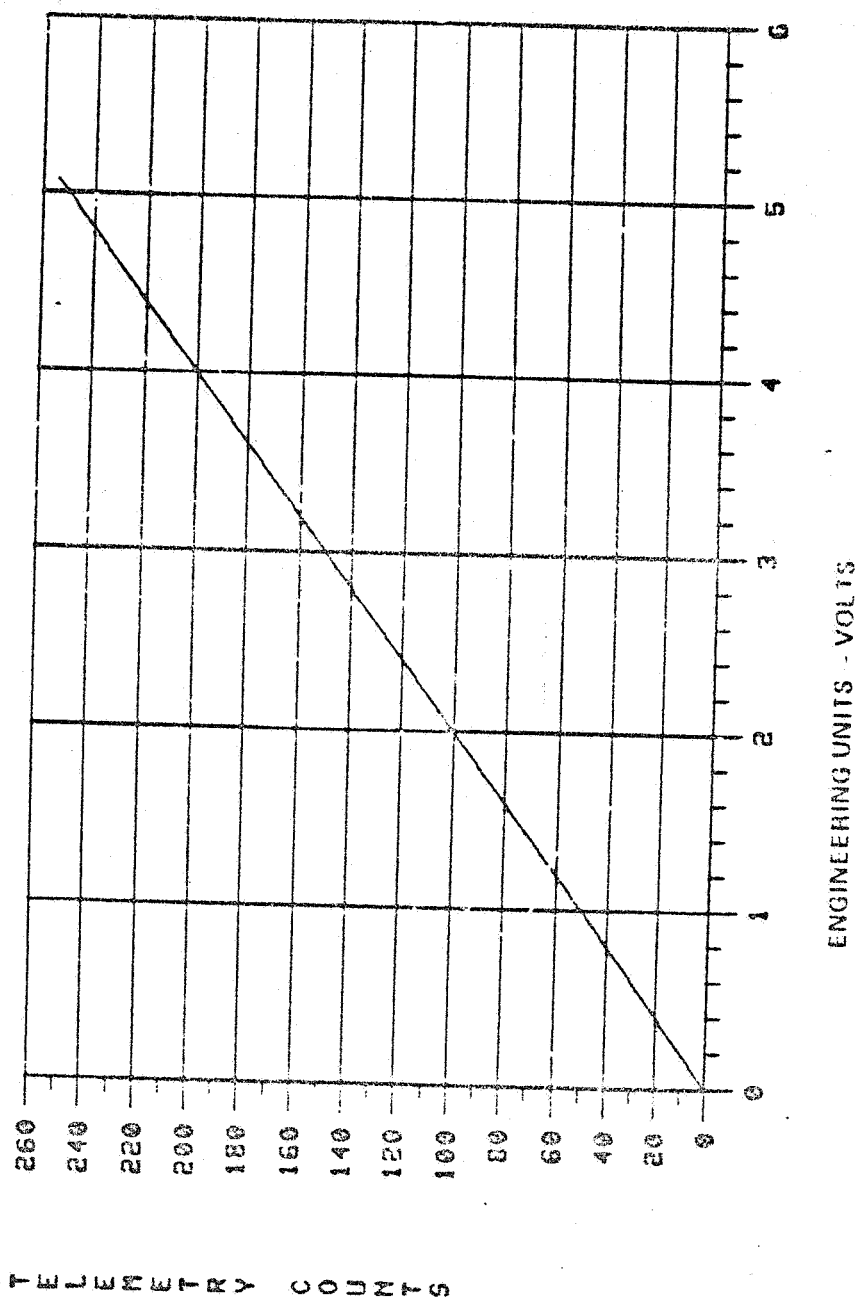


TELEMETRY COUNTS

ENGINEERING UNITS - VOLTS

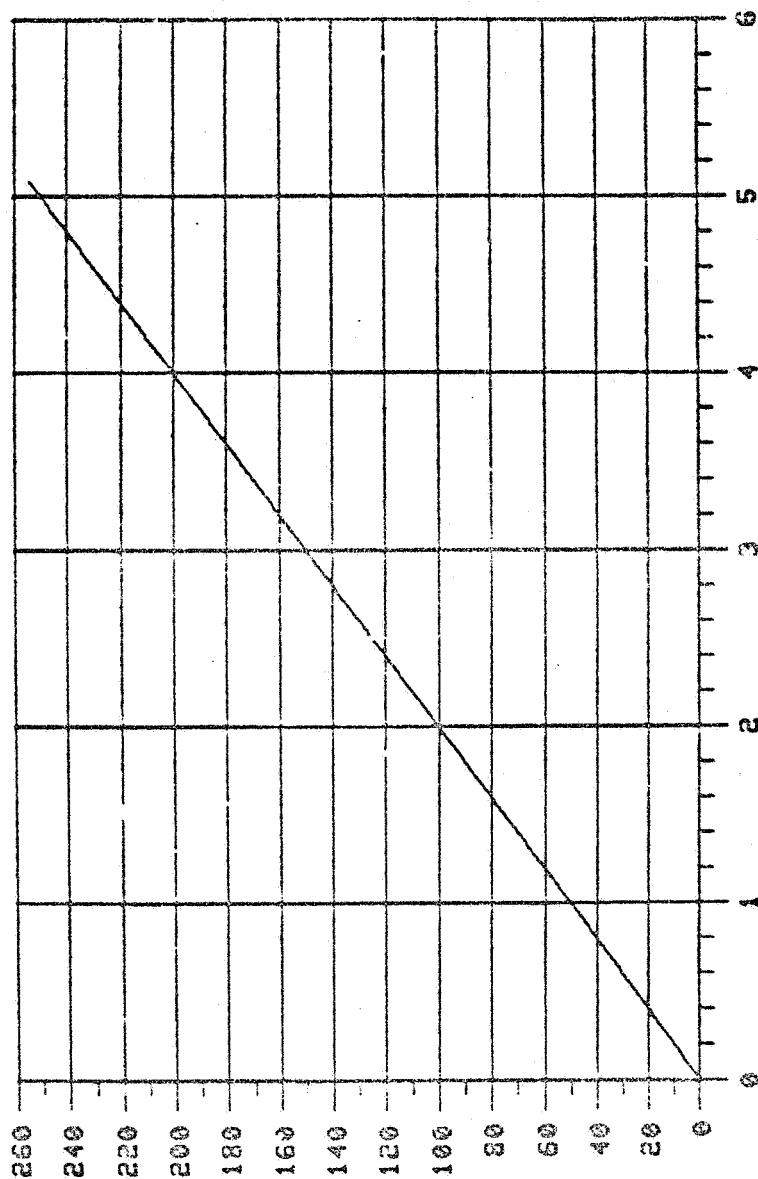
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COUNTS VS ENGINEERING UNITS FOR NIP3ENC



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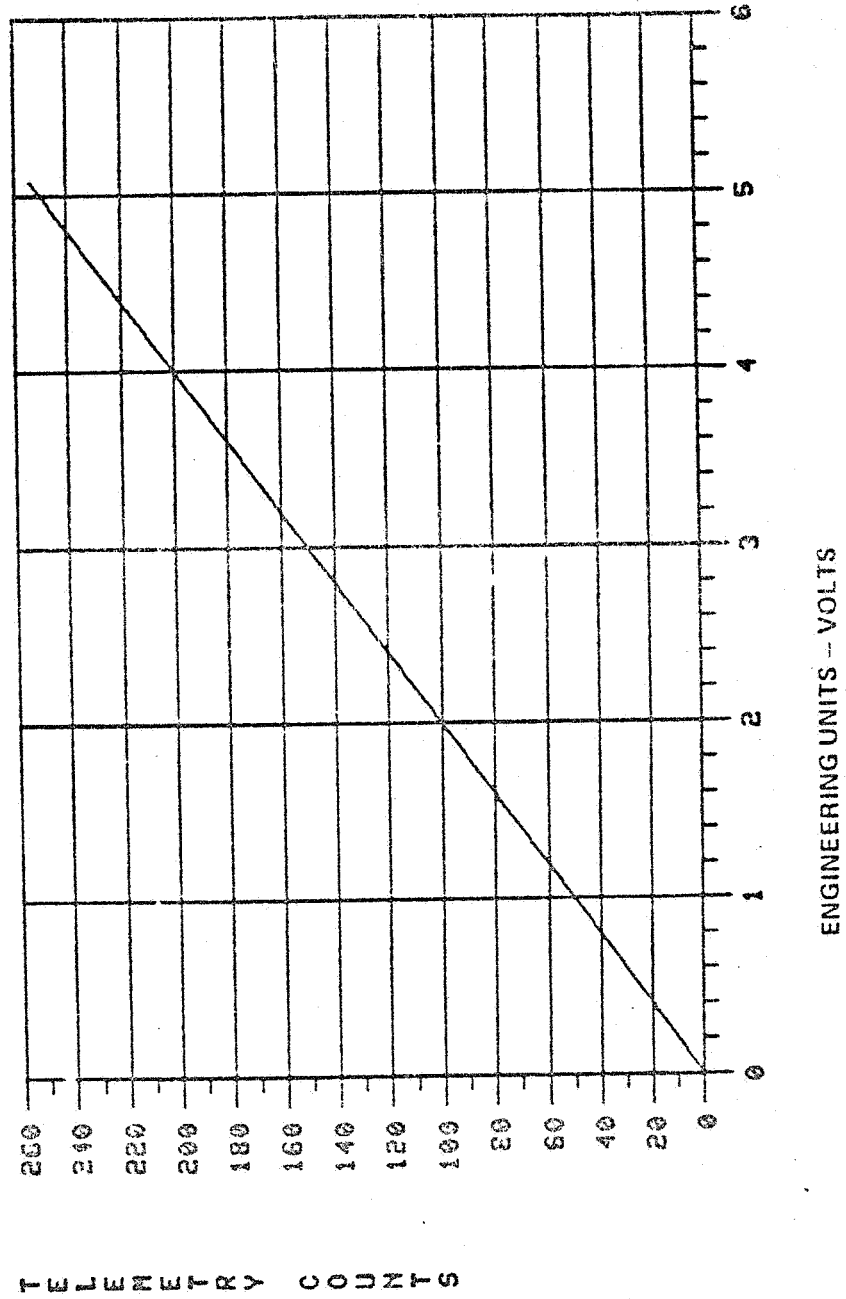


TELEMETRY COUNTS

ENGINEERING UNITS - VOLTS

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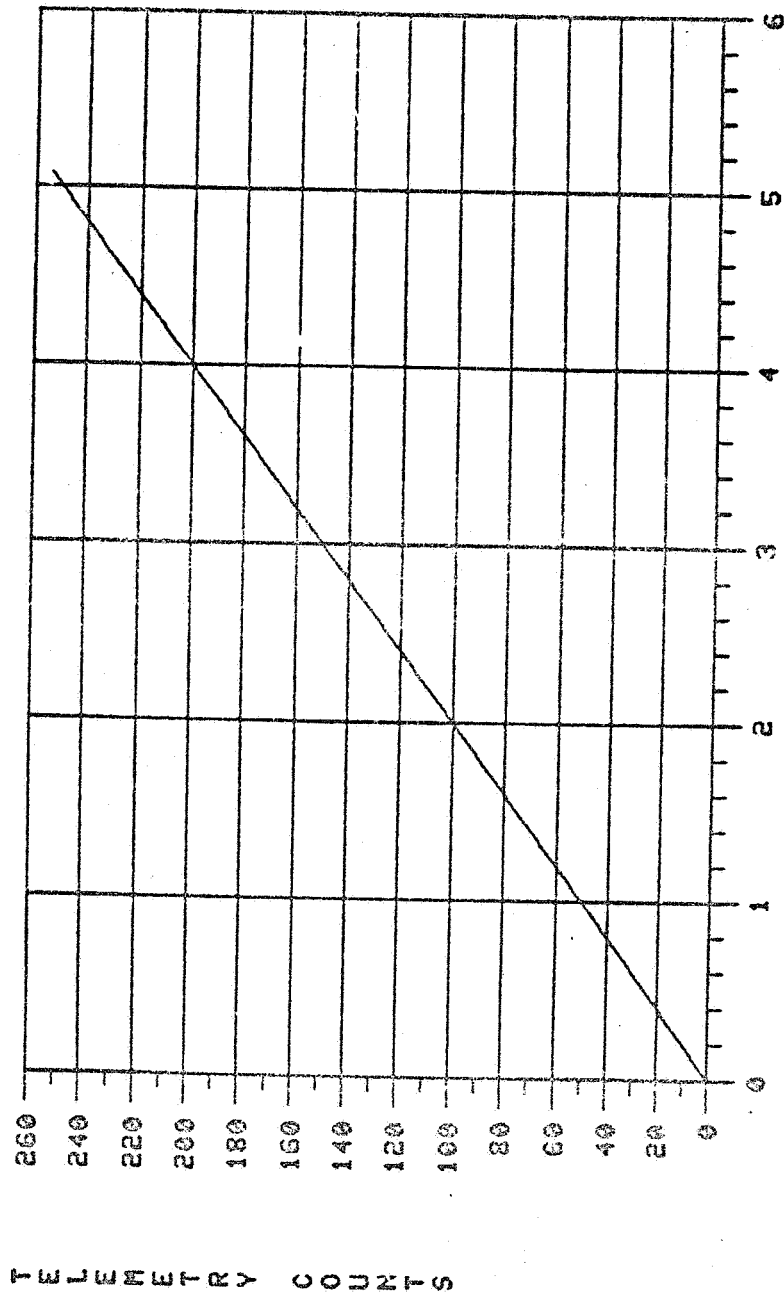
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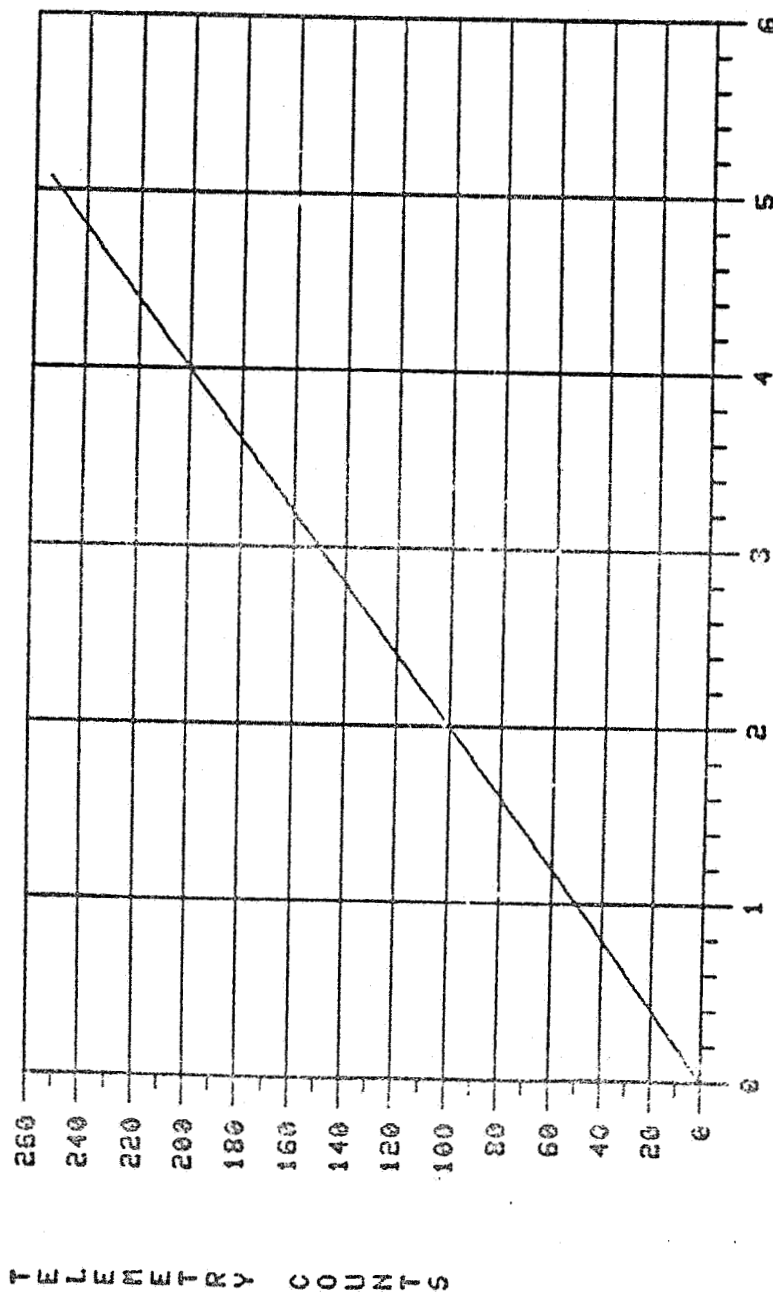
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Appendix A
June 1982

COUNTS VS ENGINEERING UNITS FOR N1PUR5U



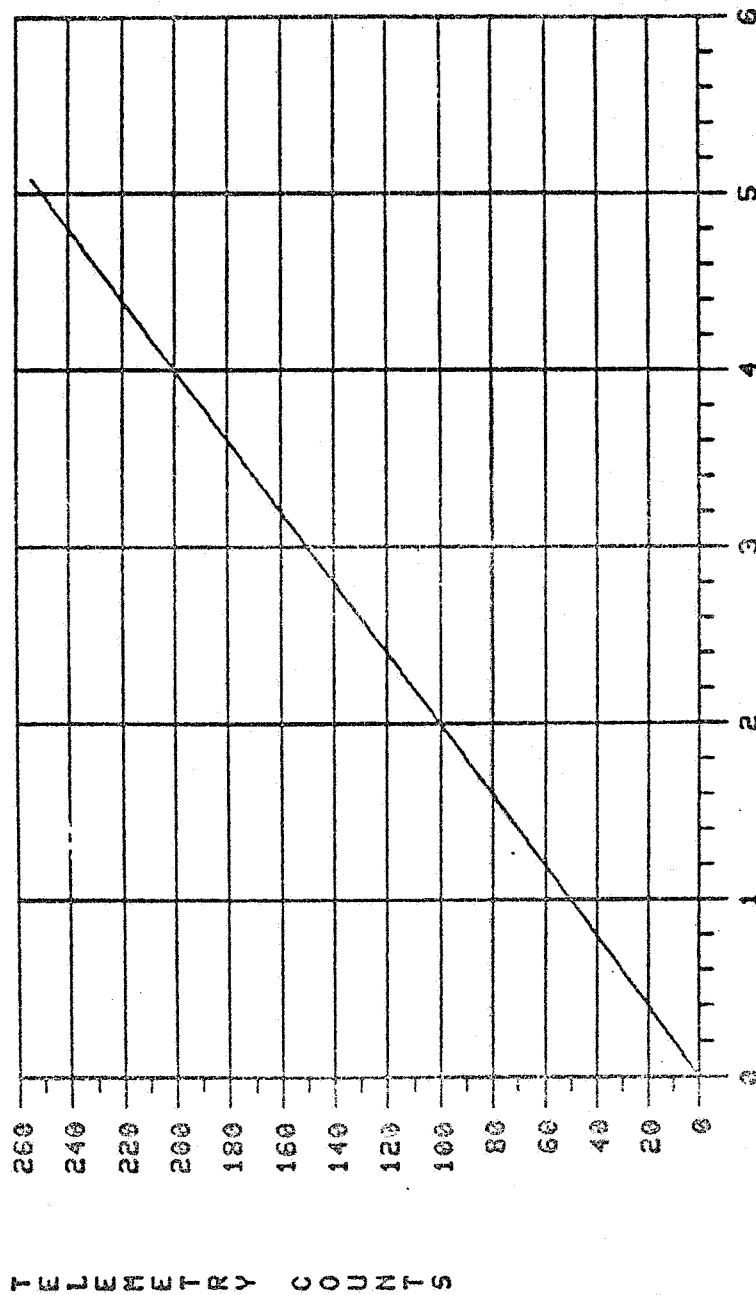
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COUNTS VS ENGINEERING UNITS FOR N1S1ENC



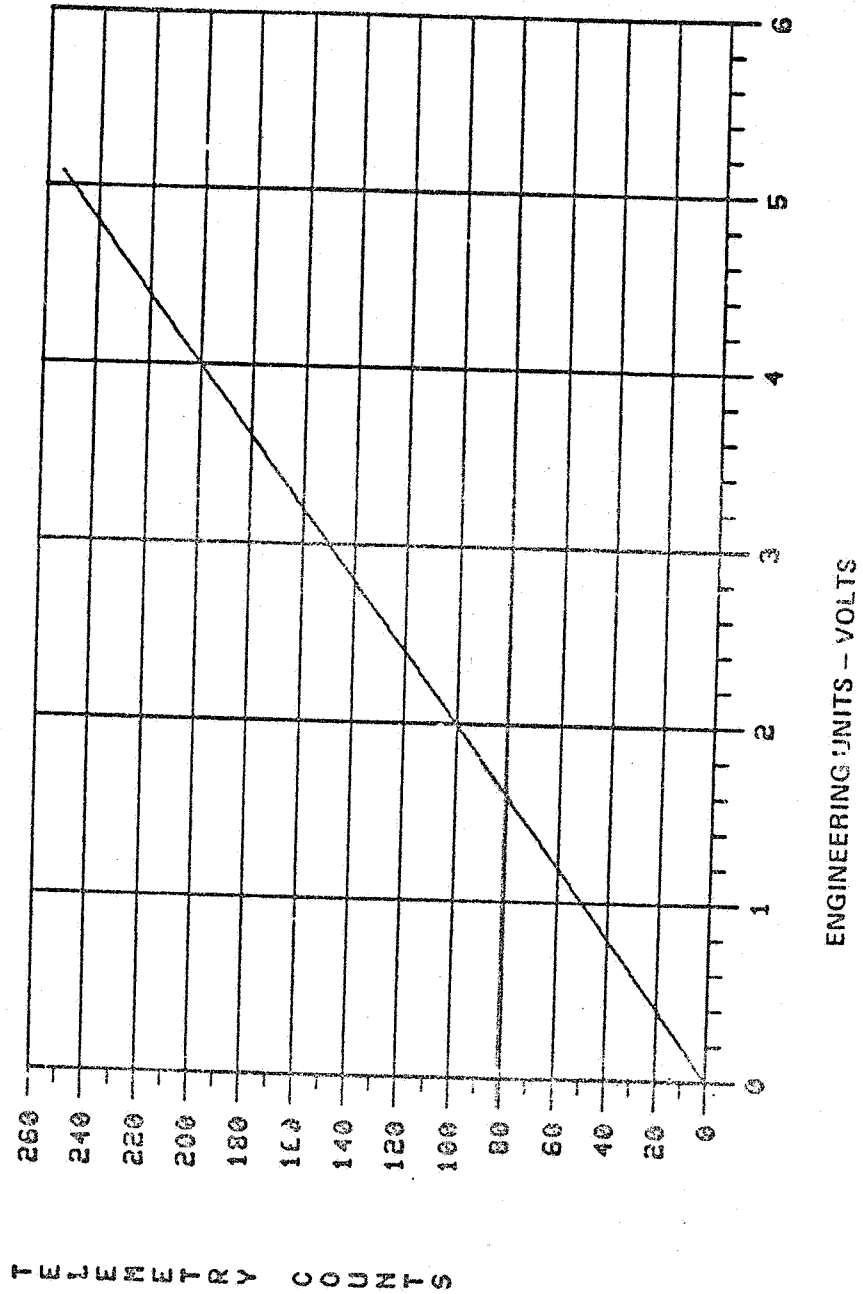
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COUNTS VS ENGINEERING UNITS FOR N192ENC



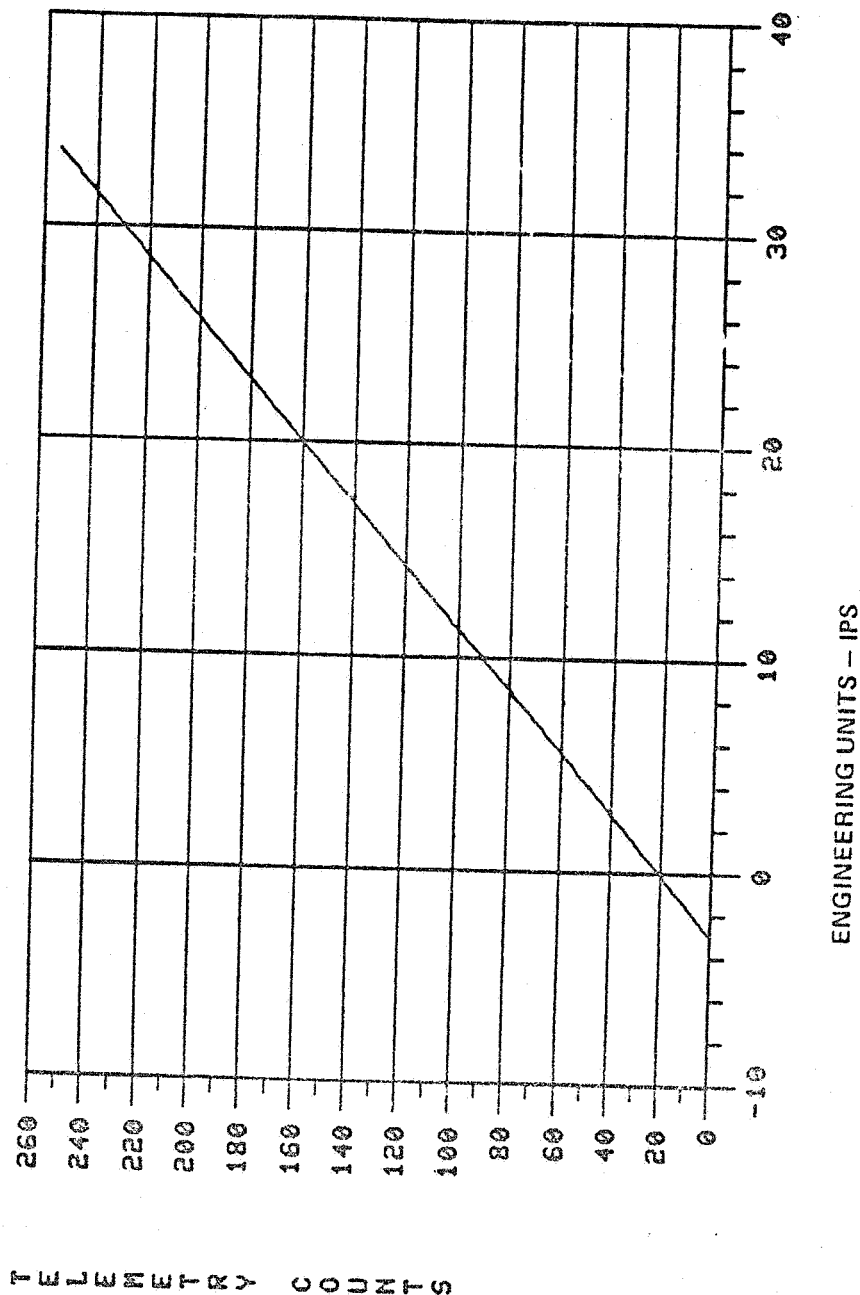
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COUNTS VS ENGINEERING UNITS FOR N133ENC



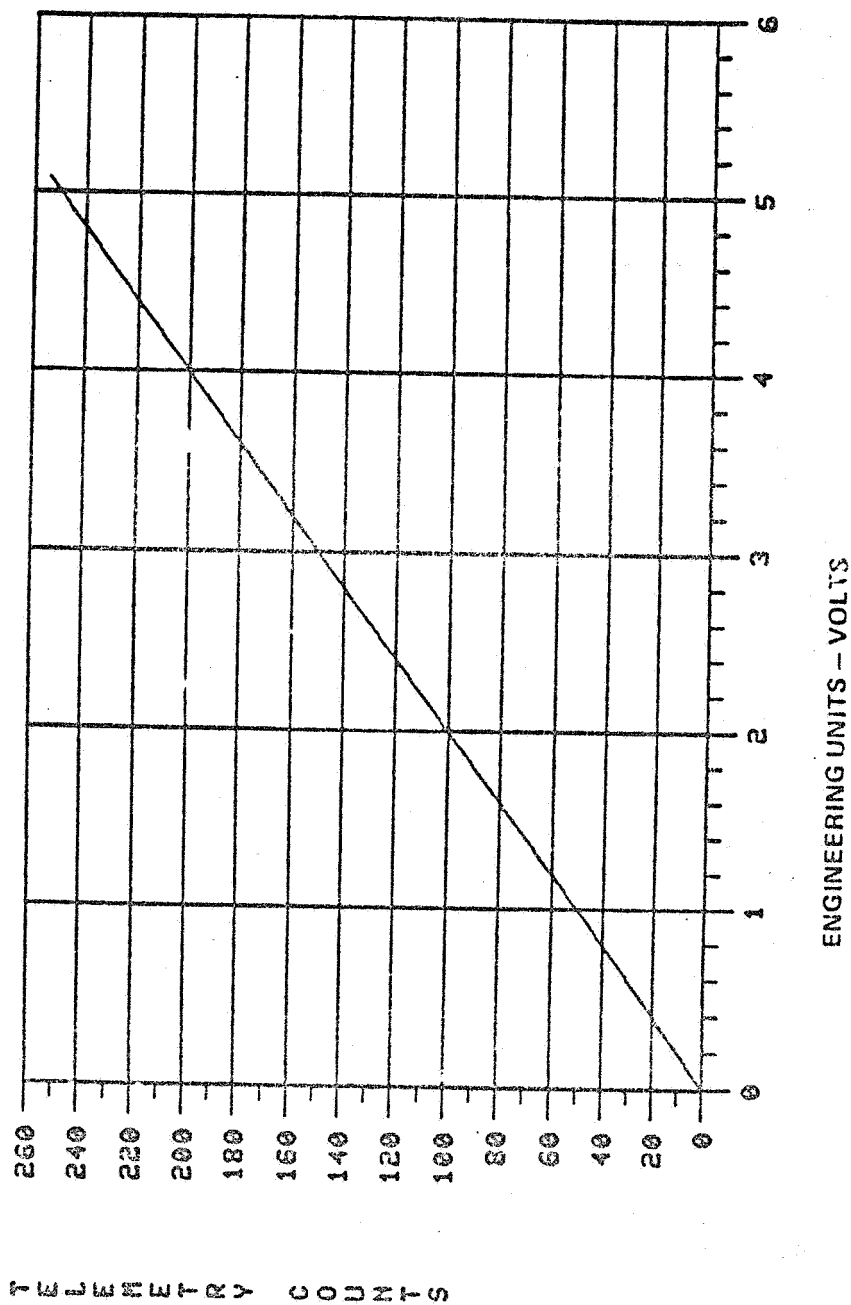
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COUNTS VS ENGINEERING UNITS FOR NISPEED



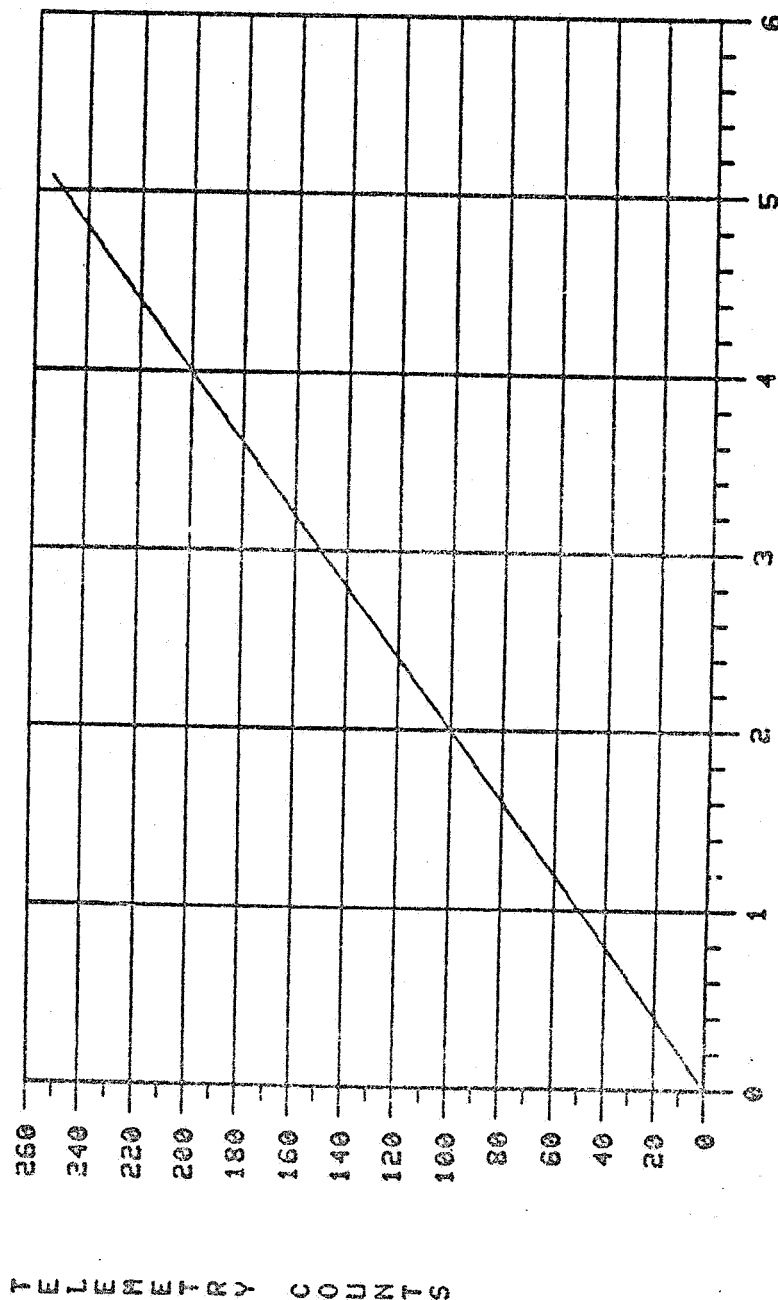
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COUNTS VS ENGINEERING UNITS FOR NISREEL



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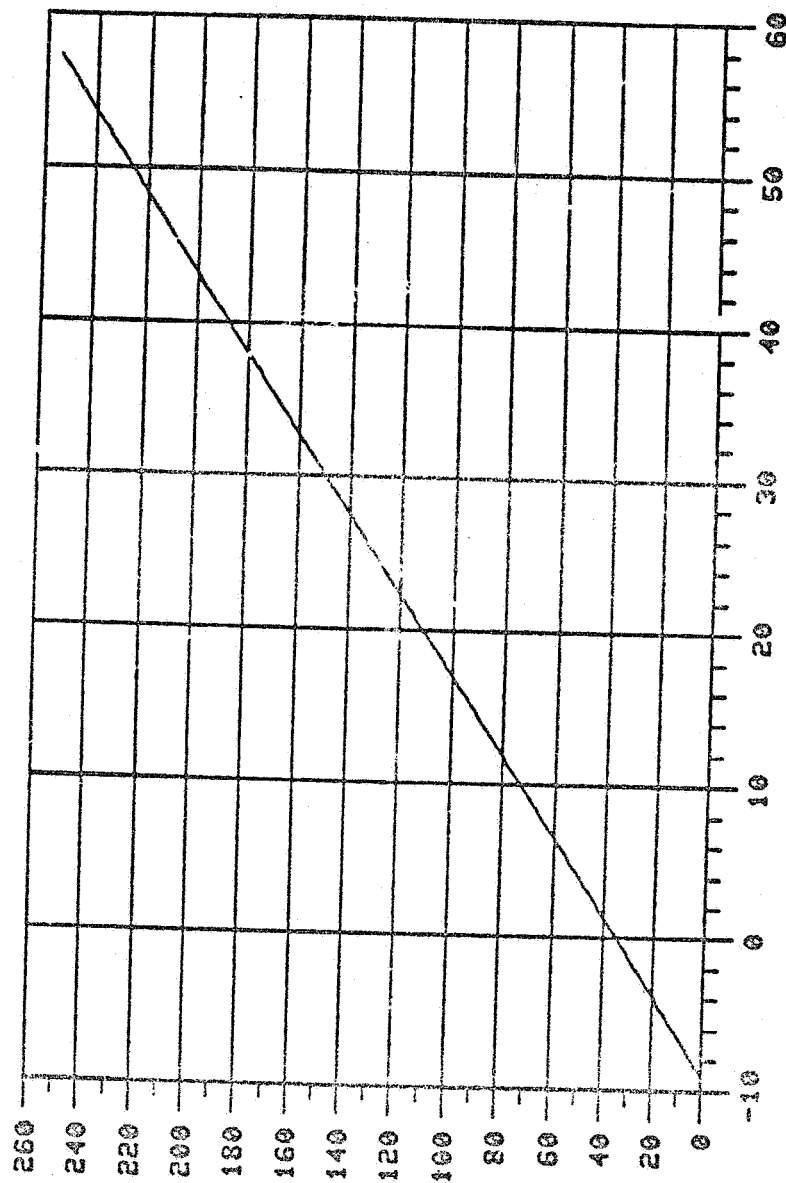
COUNTS VS ENGINEERING UNITS FOR N1STACH



ENGINEERING UNITS - VOLTS

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COUNTS VS ENGINEERING UNITS FOR N1SUERR

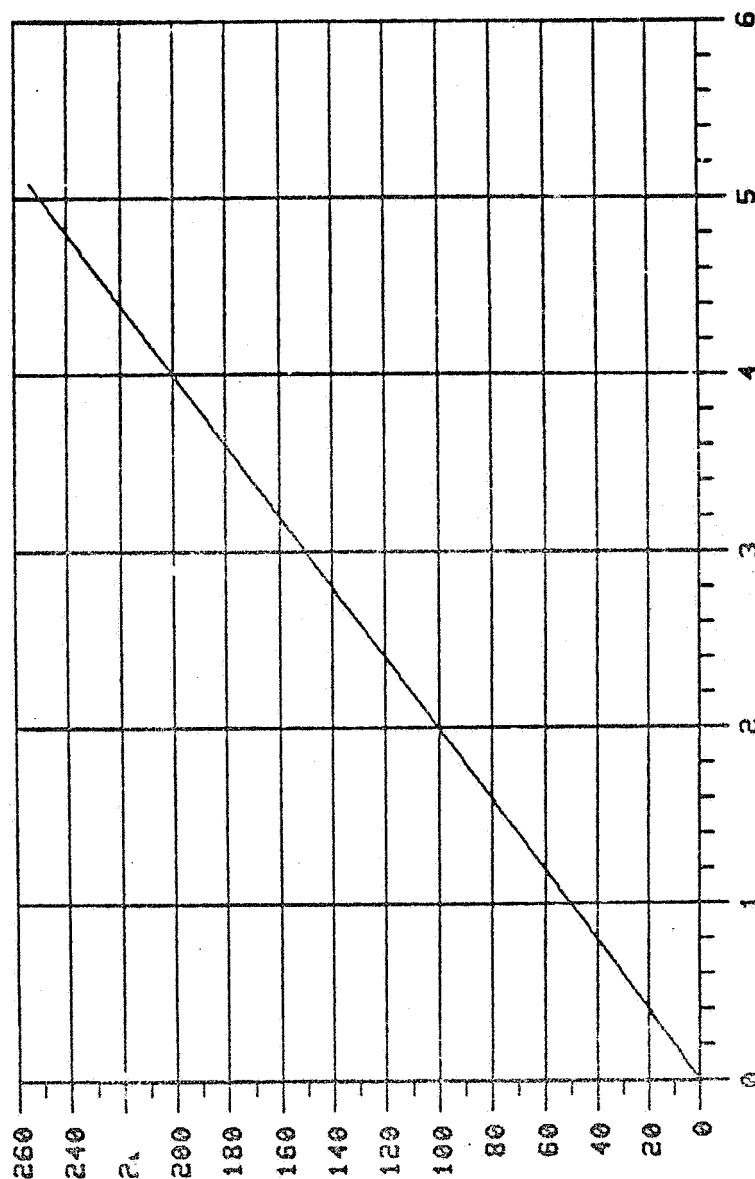


TELEMETRY COUNTS

ENGINEERING UNITS - IPS

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COUNTS VS ENGINEERING UNITS FOR N2ASBOT

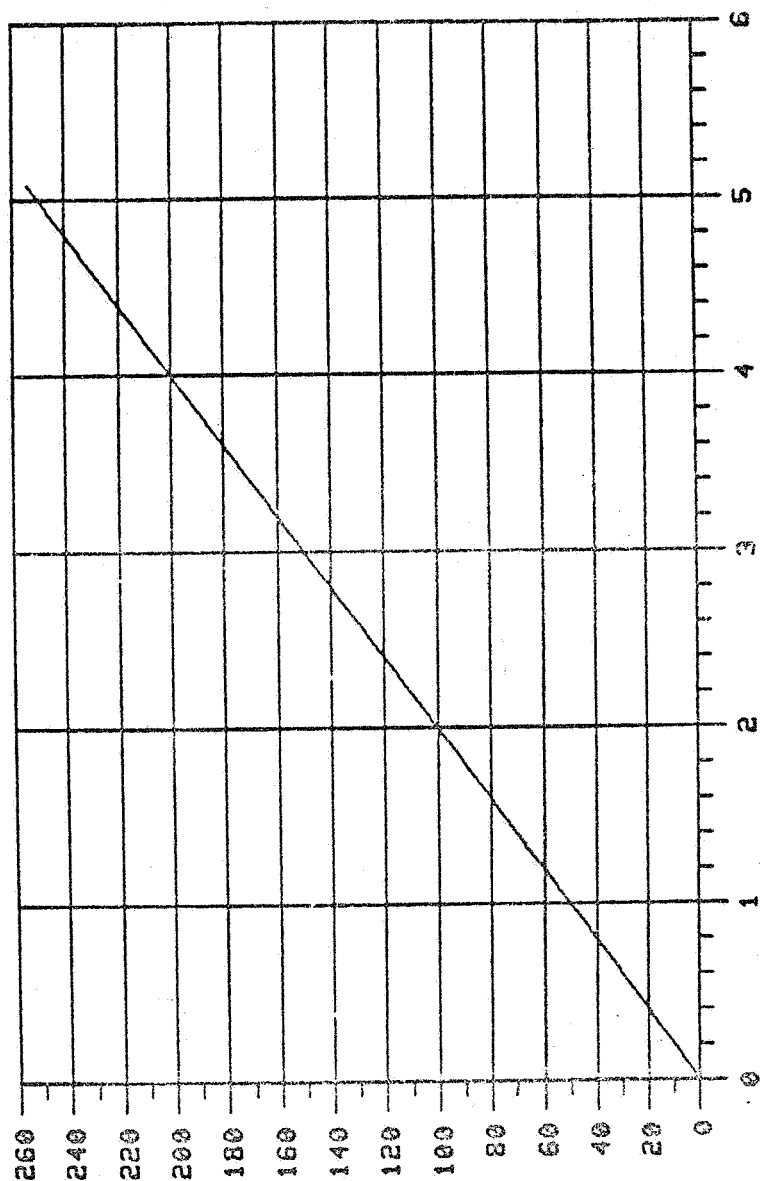


TELEMETRY COUNTS

ENGINEERING UNITS - VOLTS

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COUNTS VS ENGINEERING UNITS FOR N2ASEOT

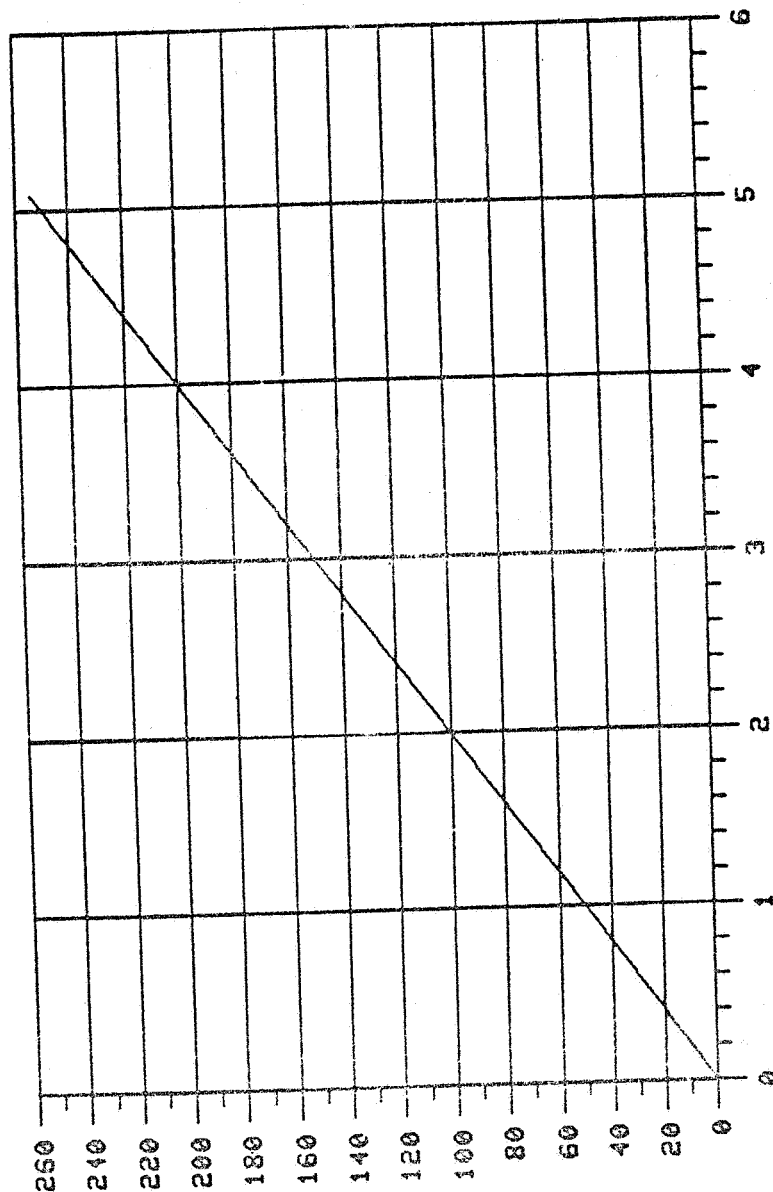


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR N2MTRI

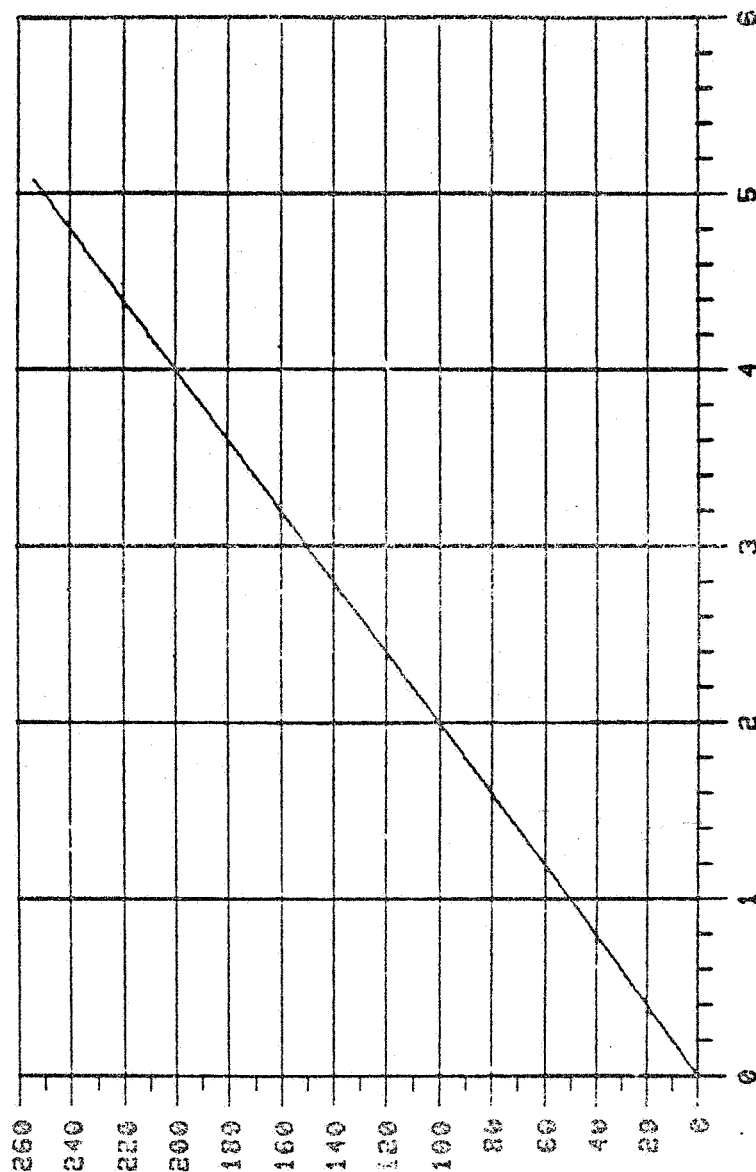


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR N2P1ENC

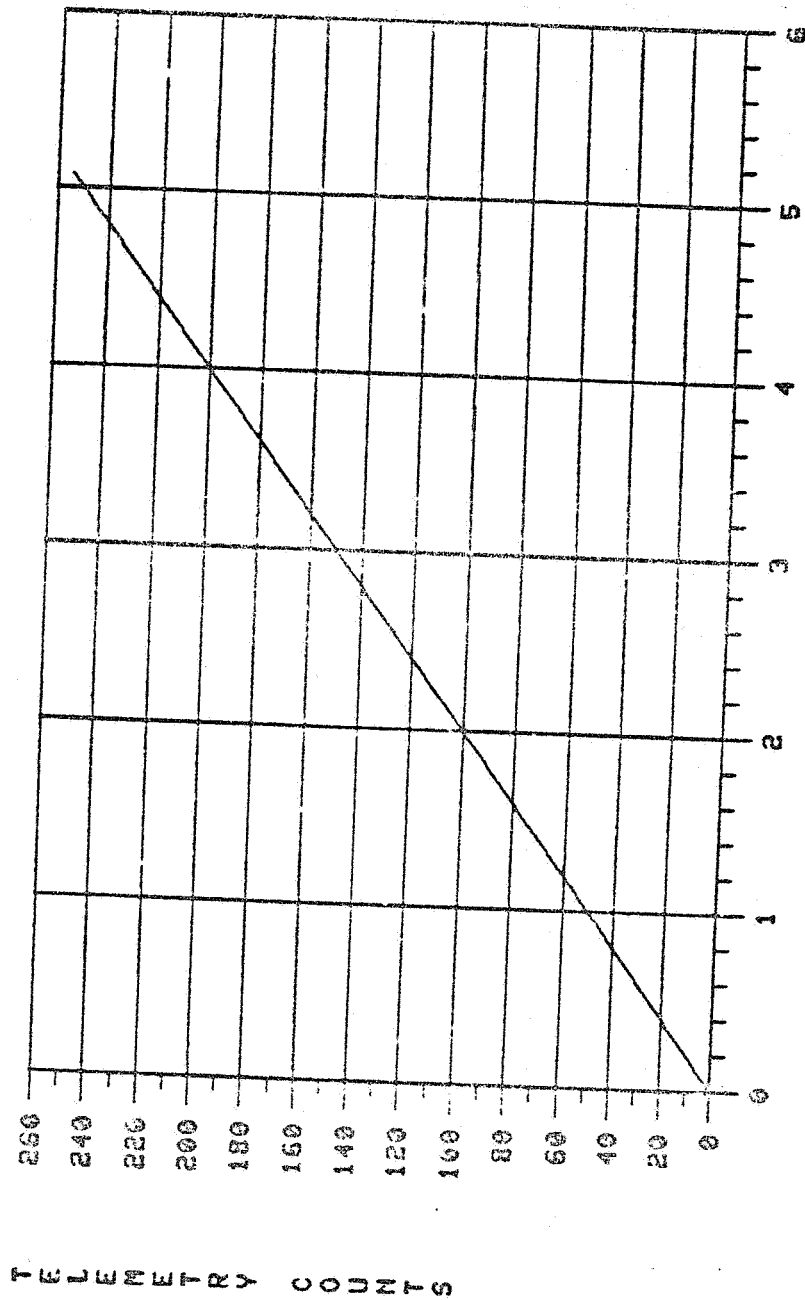


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

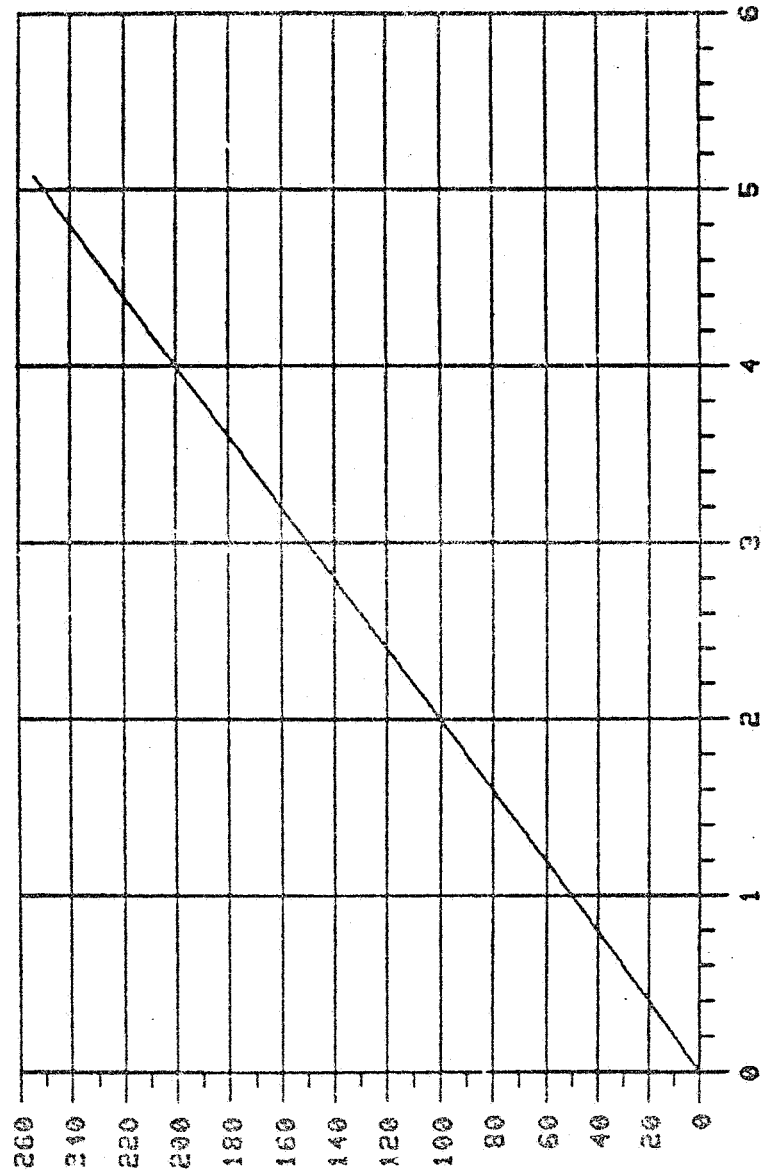
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COUNTS VS ENGINEERING UNITS FOR N2P2ENC



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COUNTS VS ENGINEERING UNITS FOR N2P3ENC

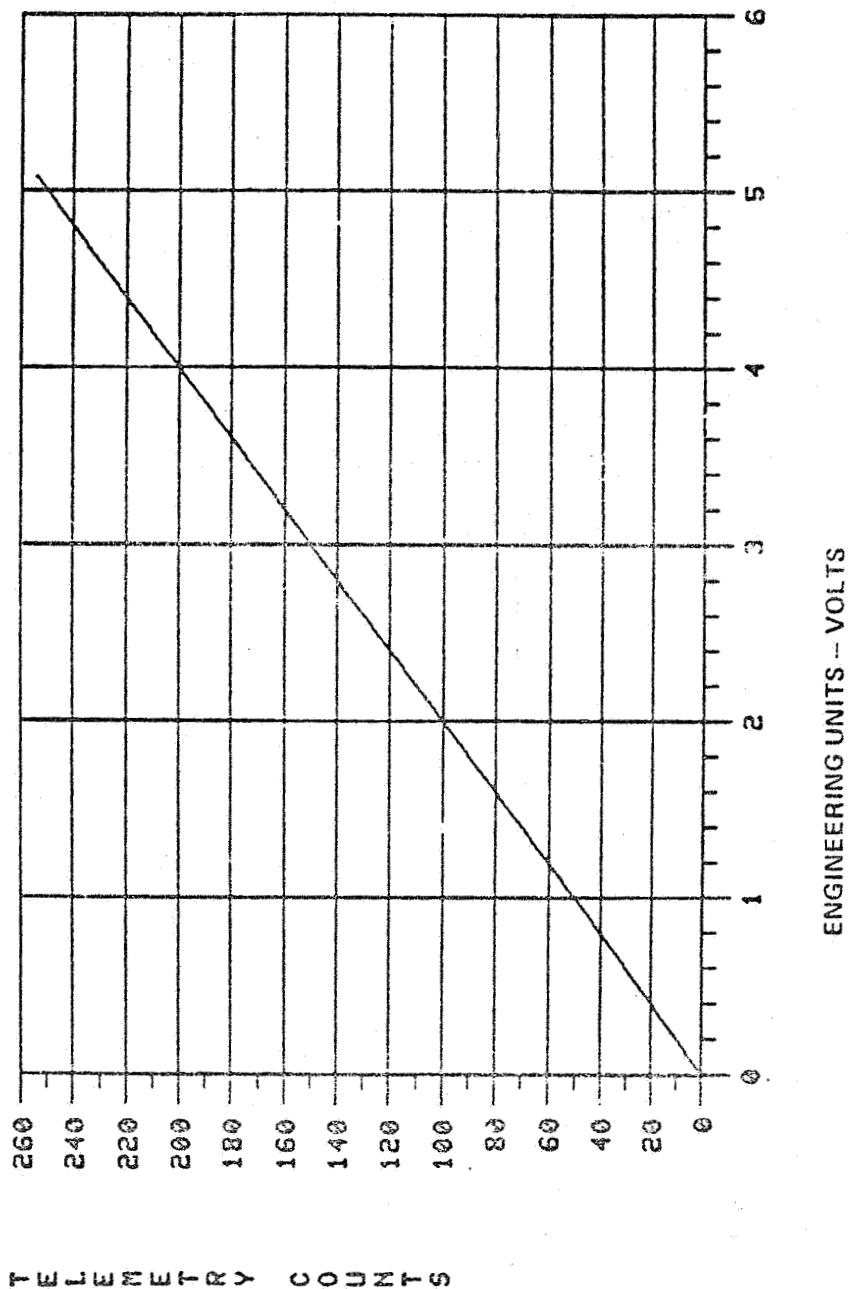


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

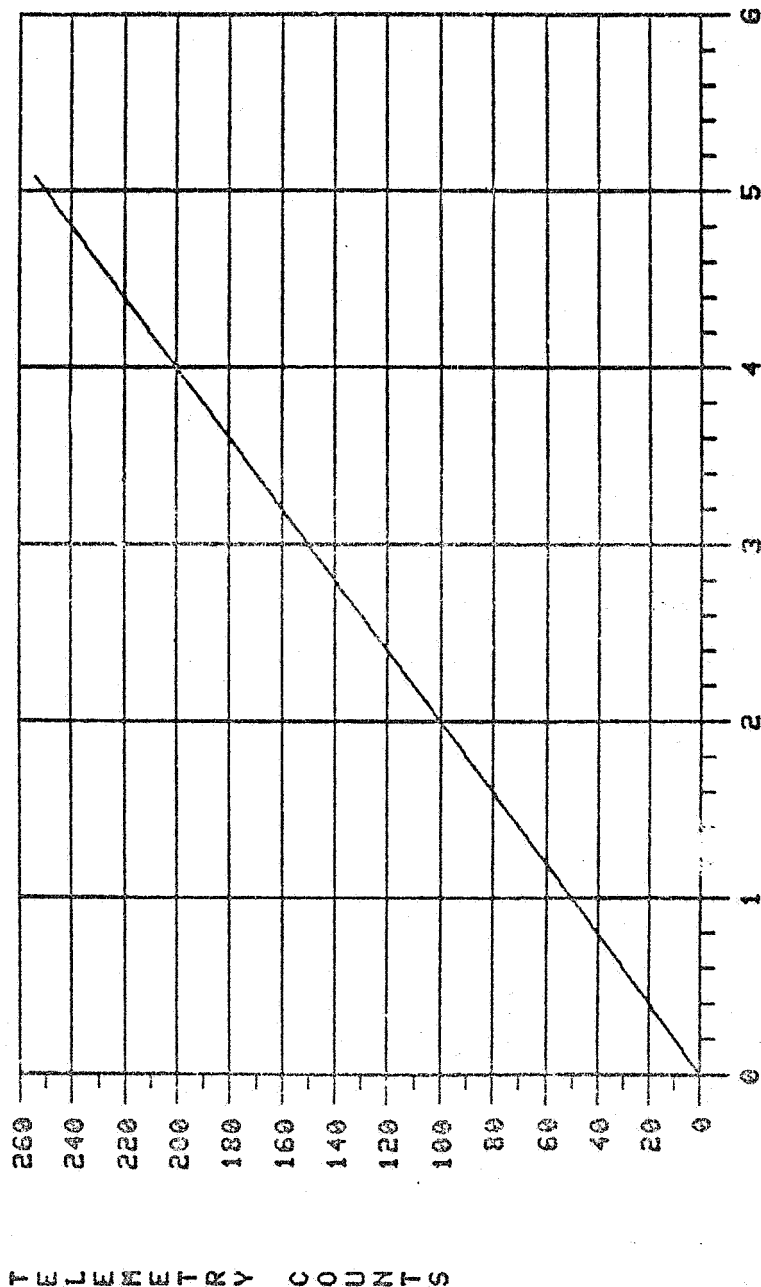
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COUNTS VS ENGINEERING UNITS FOR N2PREEL



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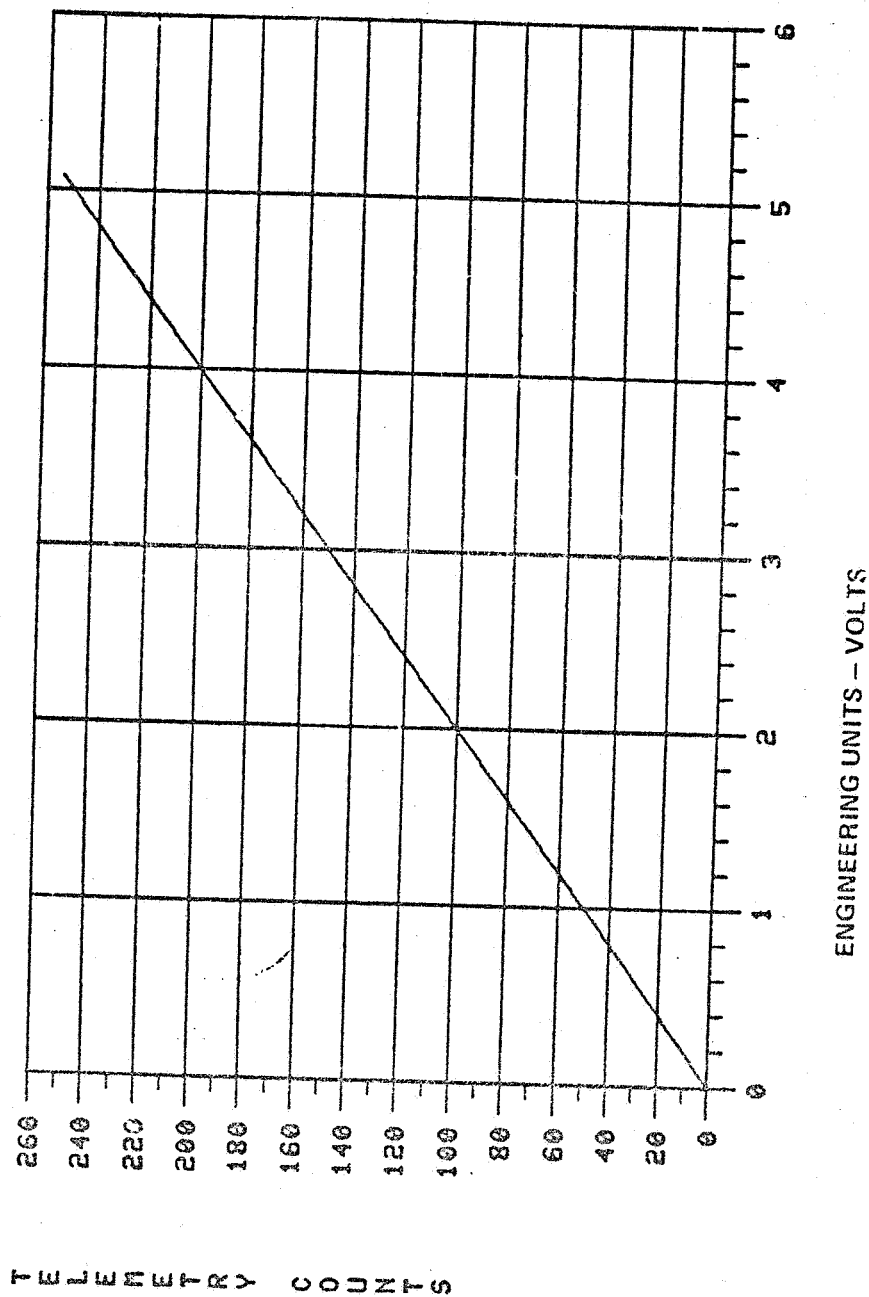
COUNTS VS ENGINEERING UNITS FOR N2PTACH



ENGINEERING UNITS - VOLTS

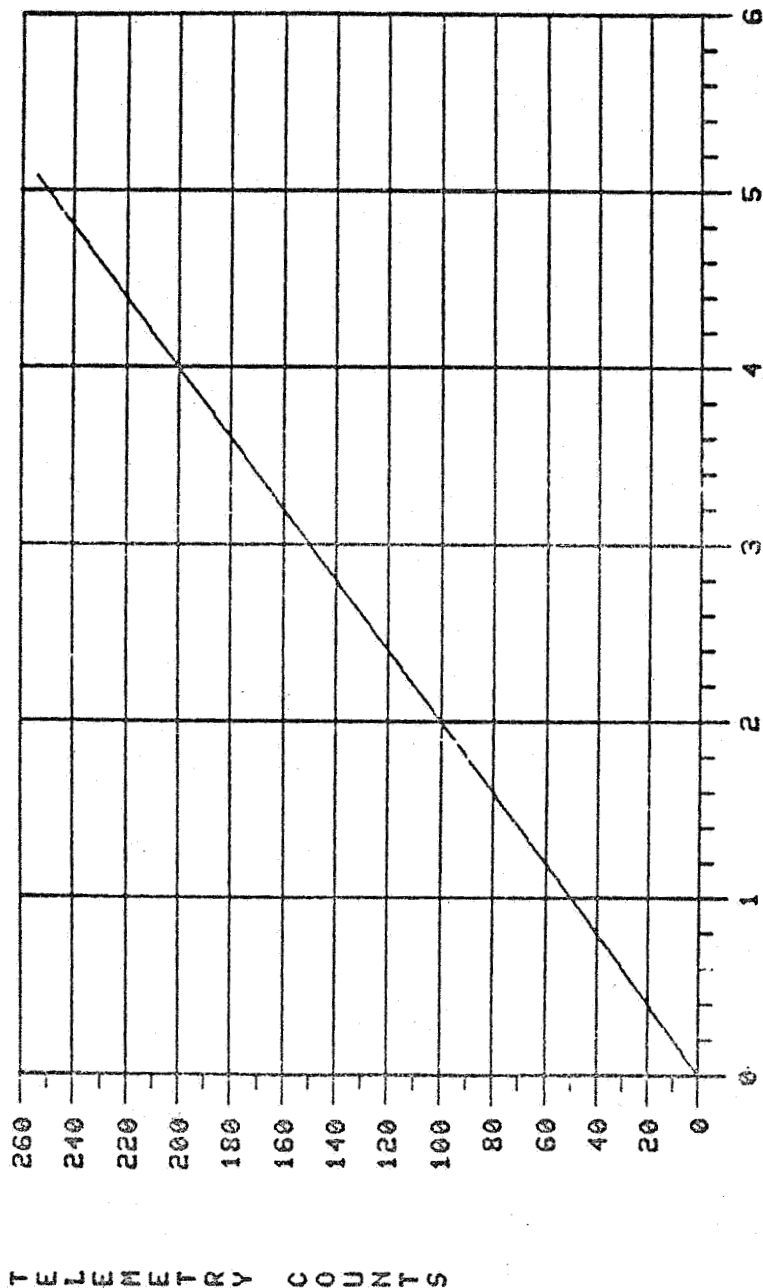
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COUNTS VS ENGINEERING UNITS FOR N2PUR5U



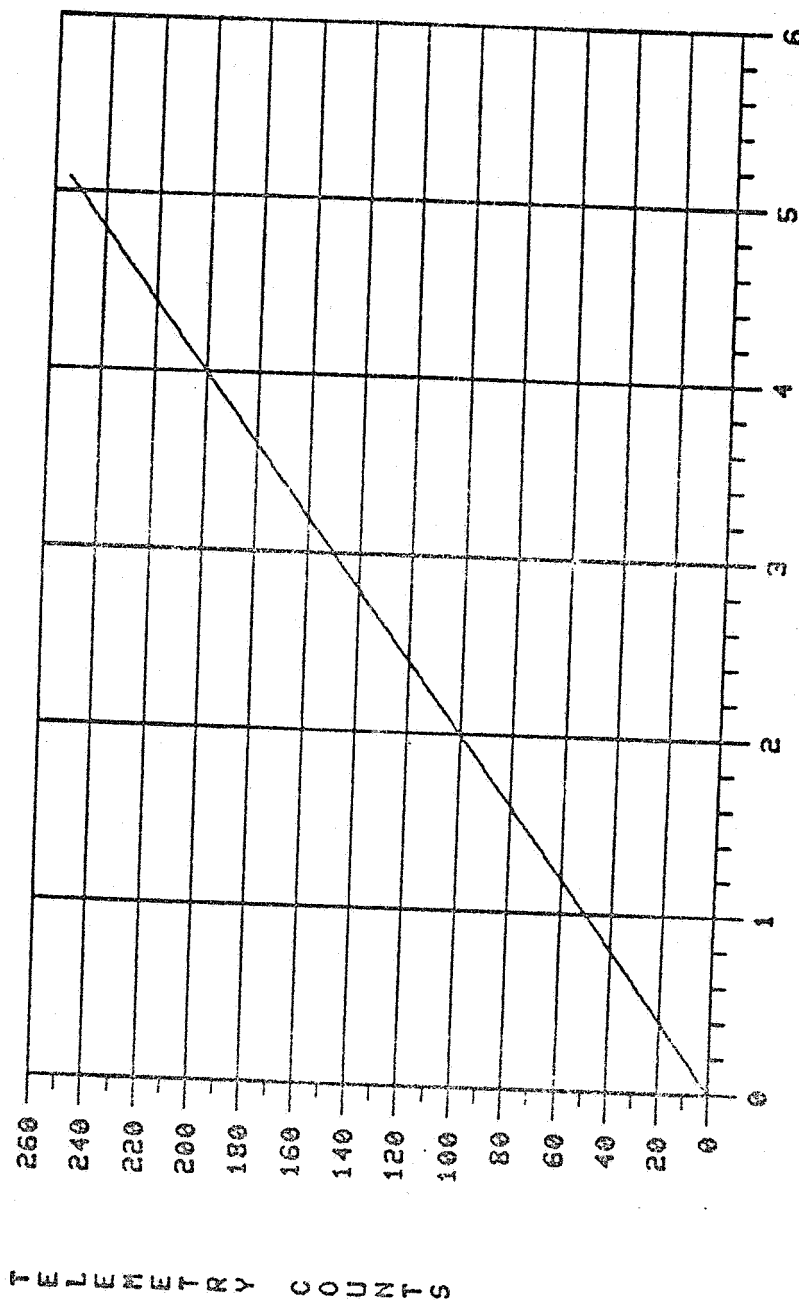
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COUNTS VS ENGINEERING UNITS FOR N2S1ENC



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COUNTS VS ENGINEERING UNITS FOR N2S2ENC

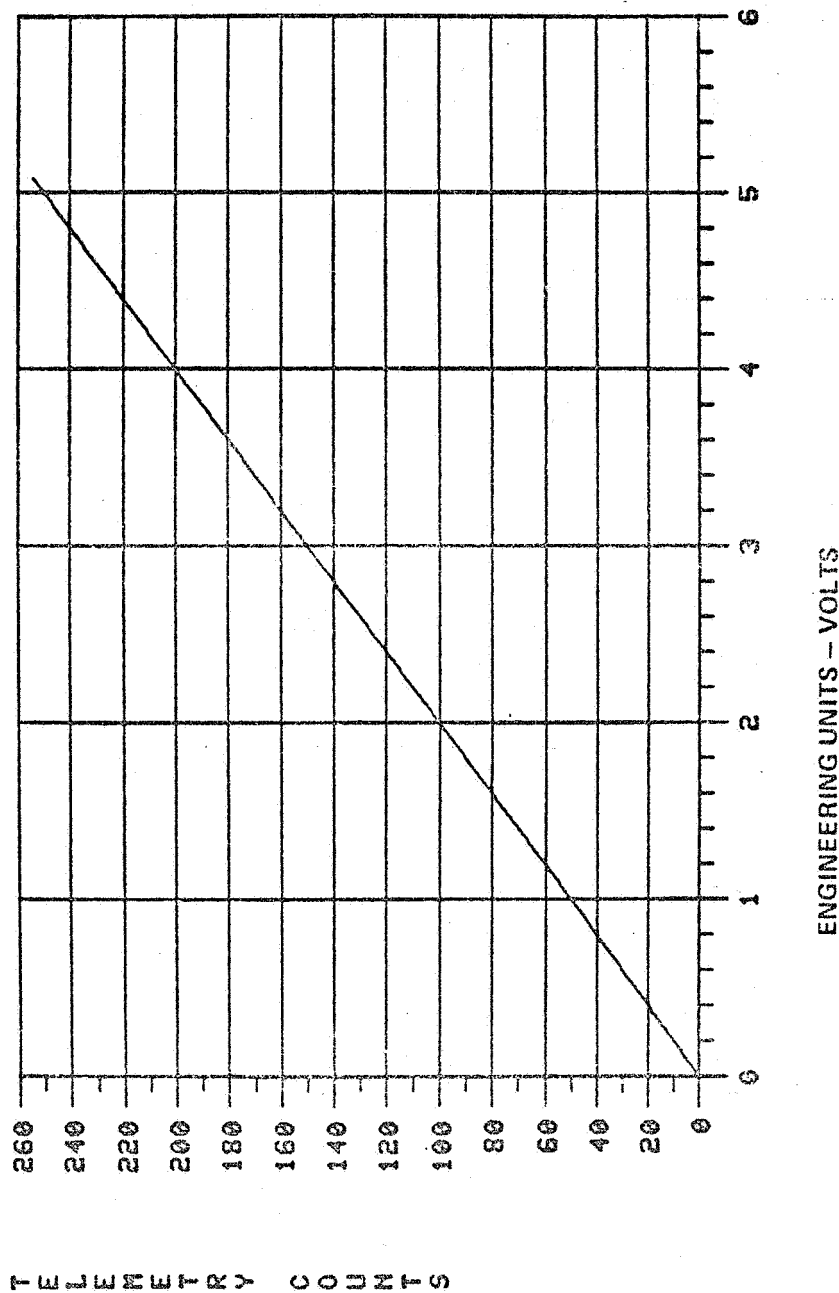


ENGINEERING UNITS - X

TELEMETRY COUNTS

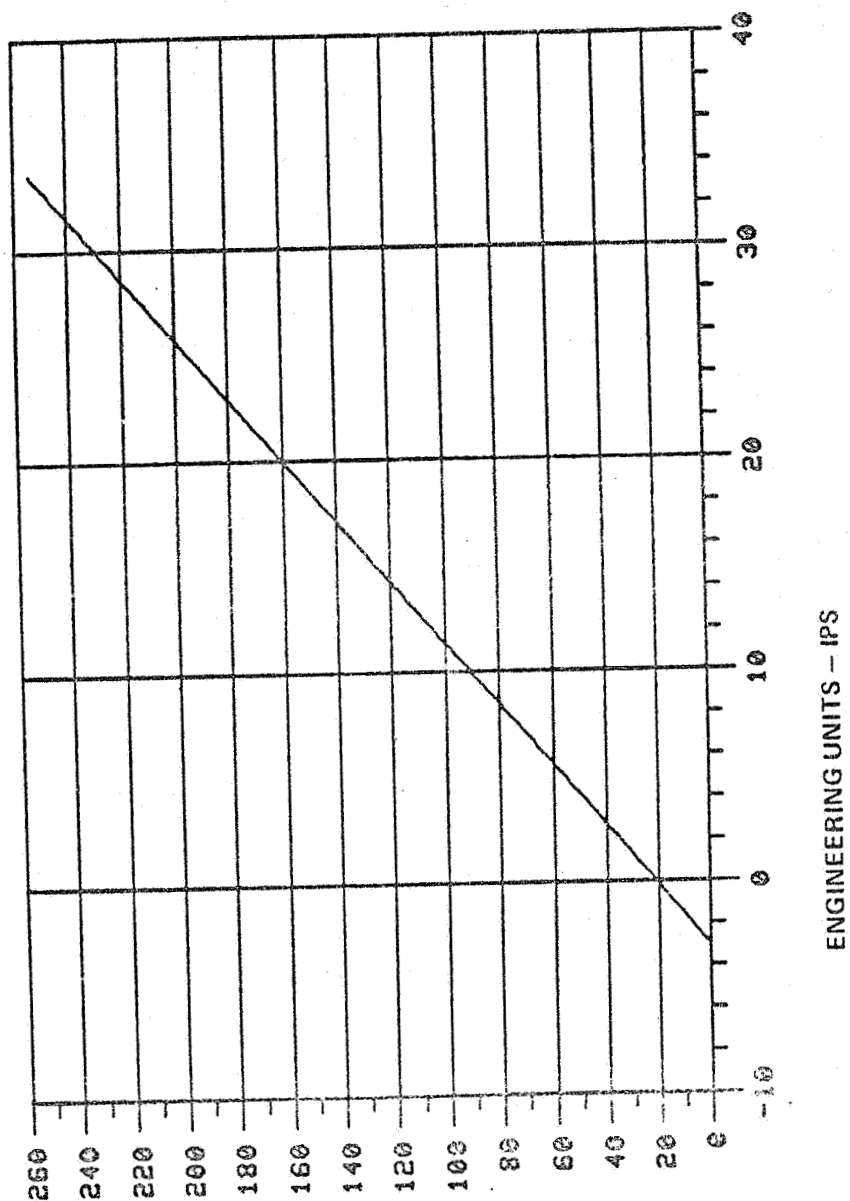
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COUNTS VS ENGINEERING UNITS FOR N2S3ENC



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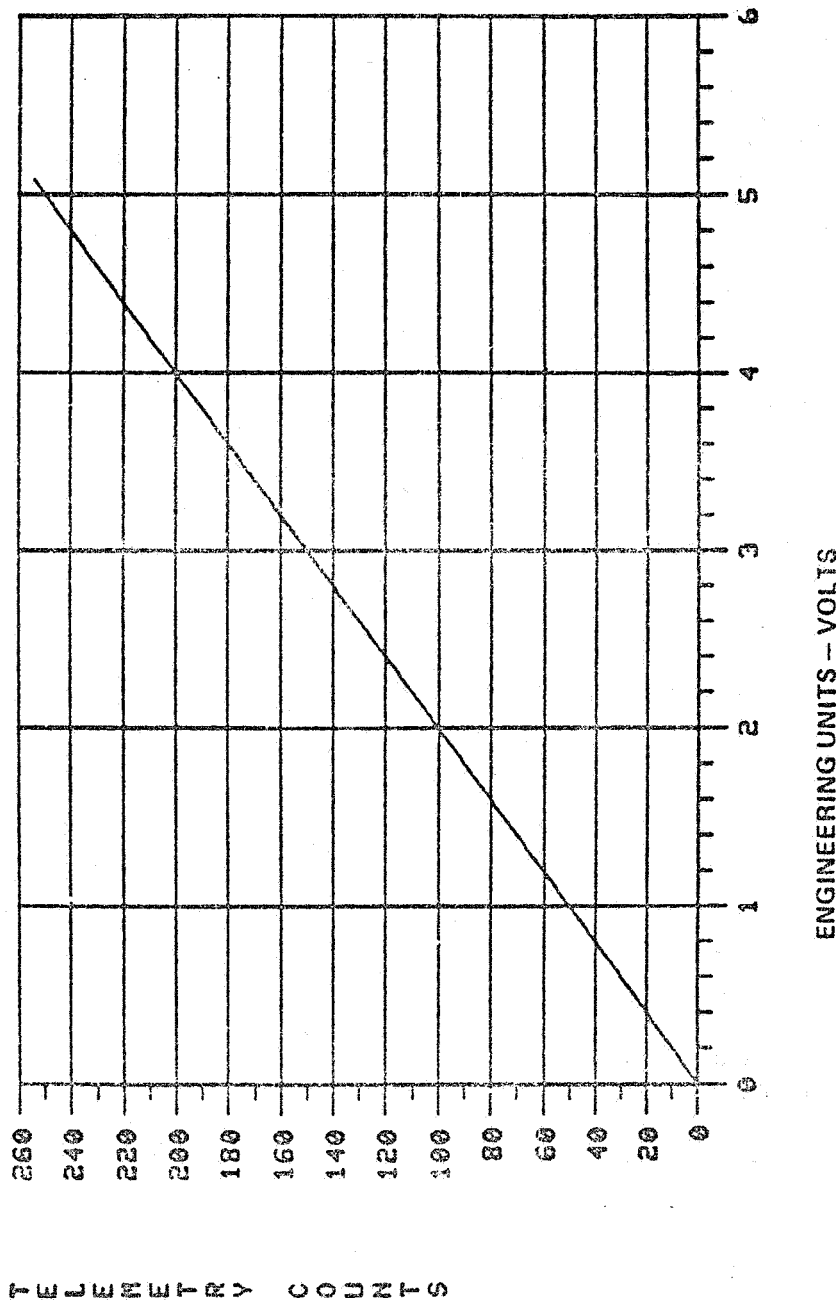
COUNTS US ENGINEERING UNITS FOR N2SPEED



TELEMETRY COUNTS

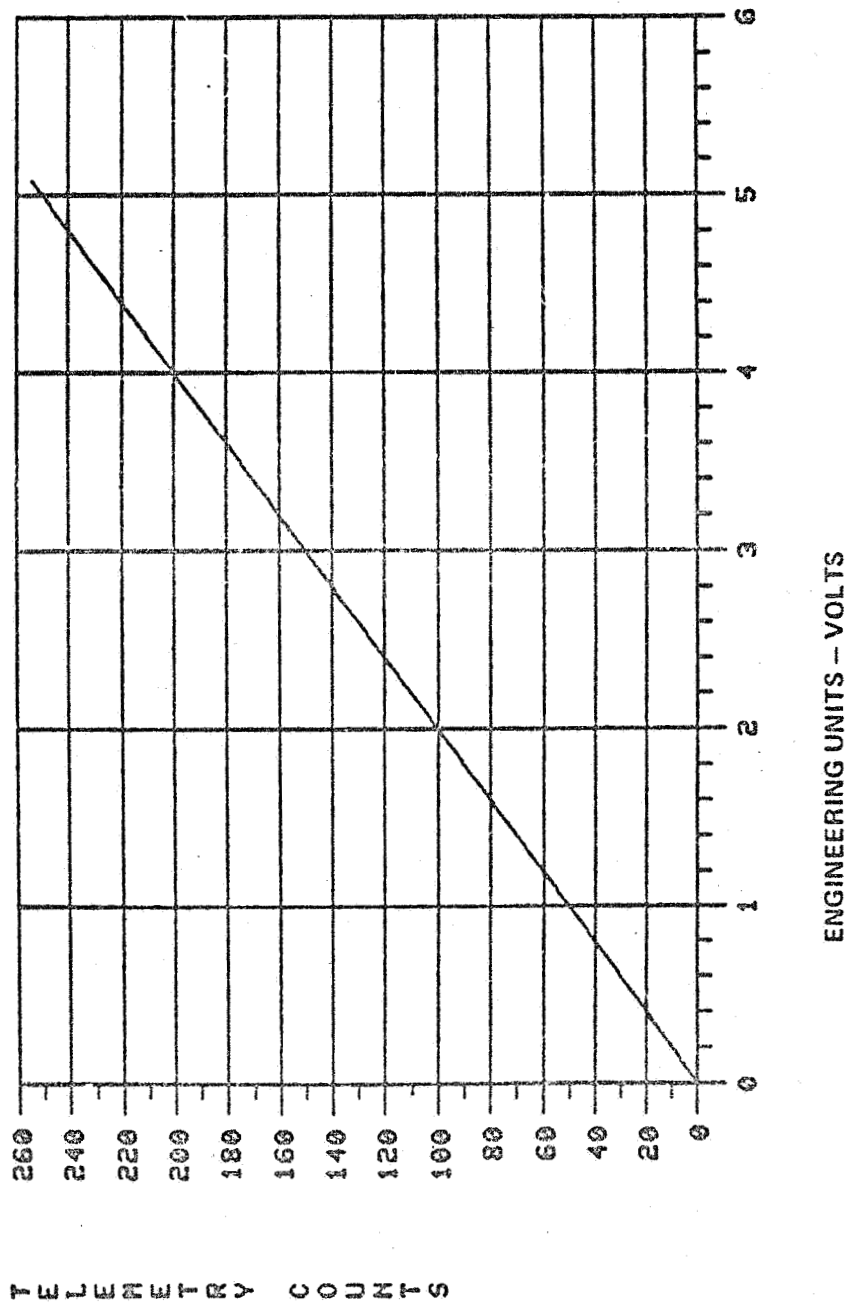
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COUNTS VS ENGINEERING UNITS FOR N2SREEL



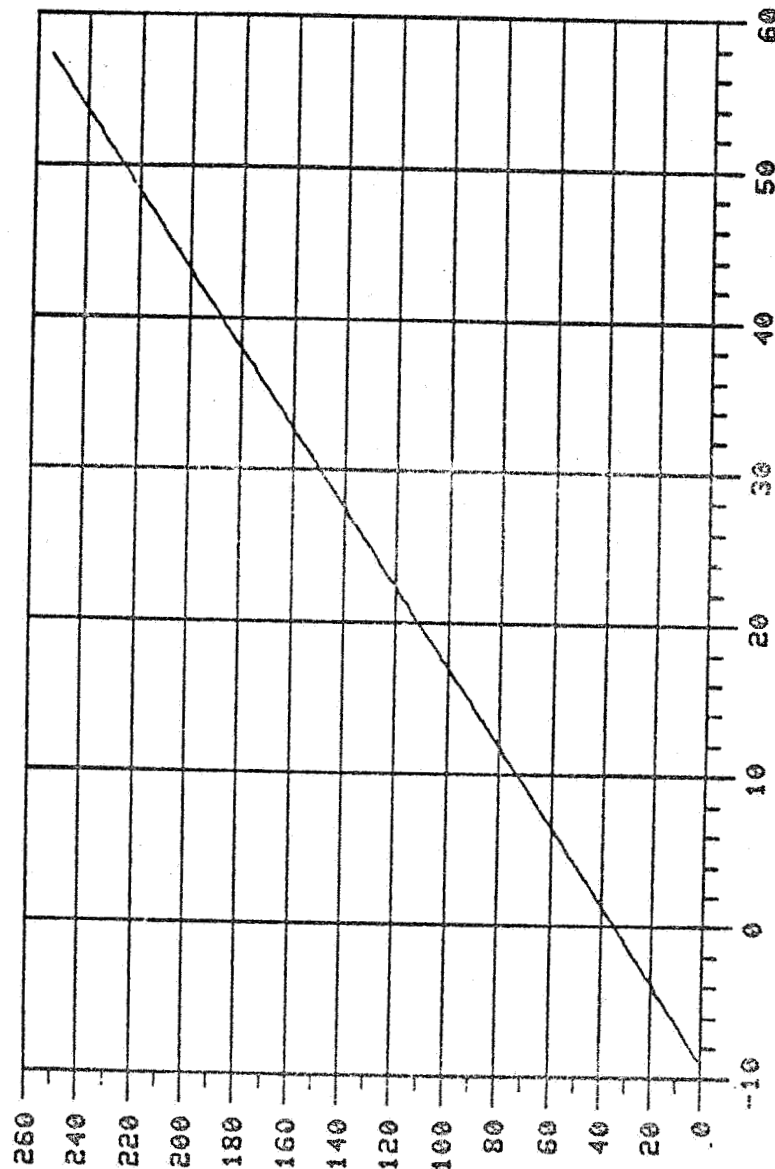
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COUNTS VS ENGINEERING UNITS FOR N2STACH



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COUNTS VS ENGINEERING UNITS FOR N2SUERR



ENGINEERING UNITS - IPS

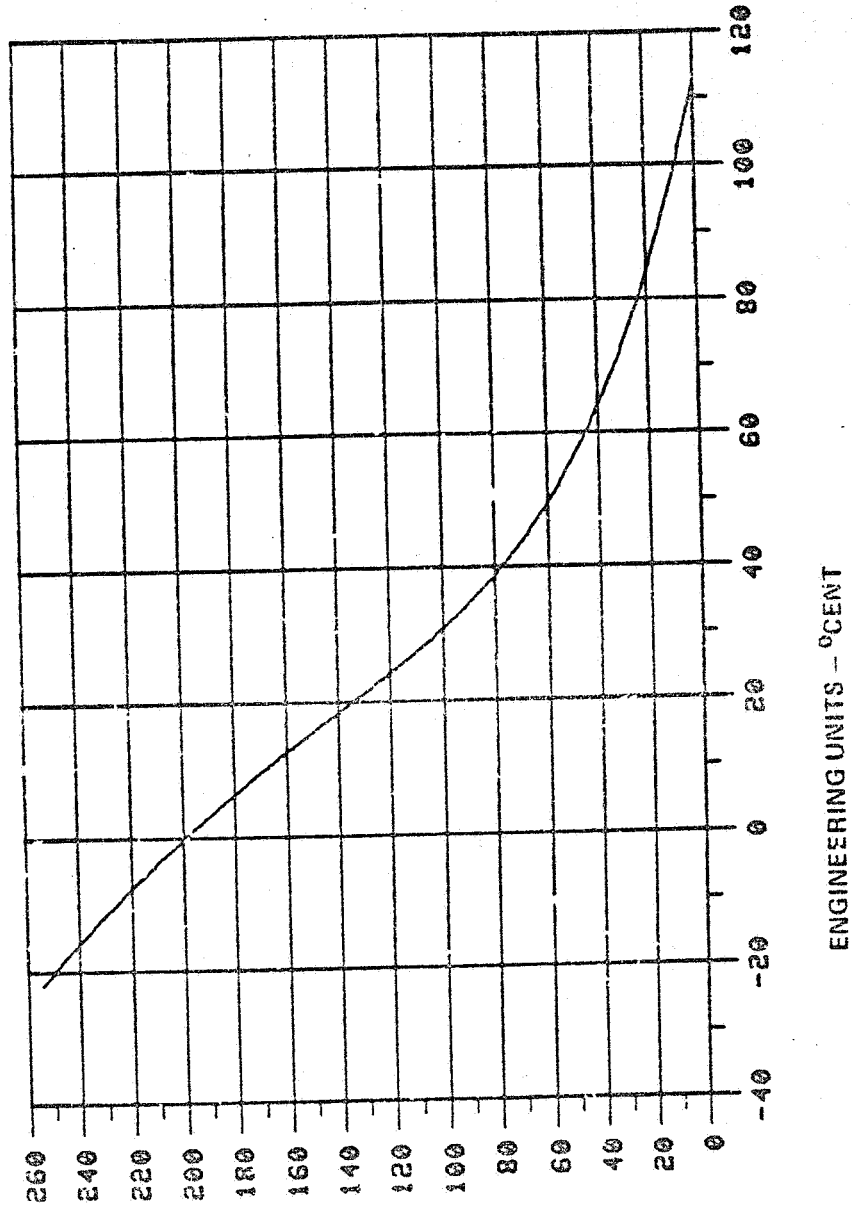
TELEMETRY COUNTS

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DEFINE MISSROM,N1PBV6,0,.02
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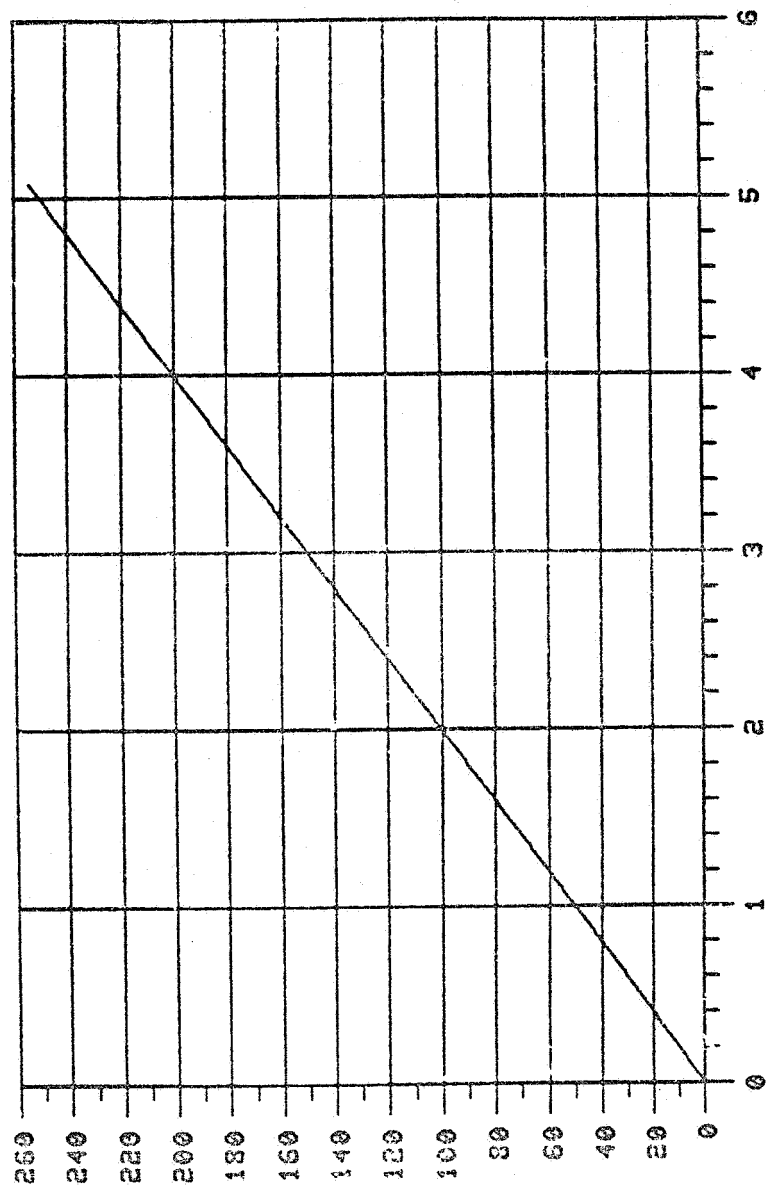
COUNTS VS ENGINEERING UNITS FOR H1EUTMP



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR N1PB01

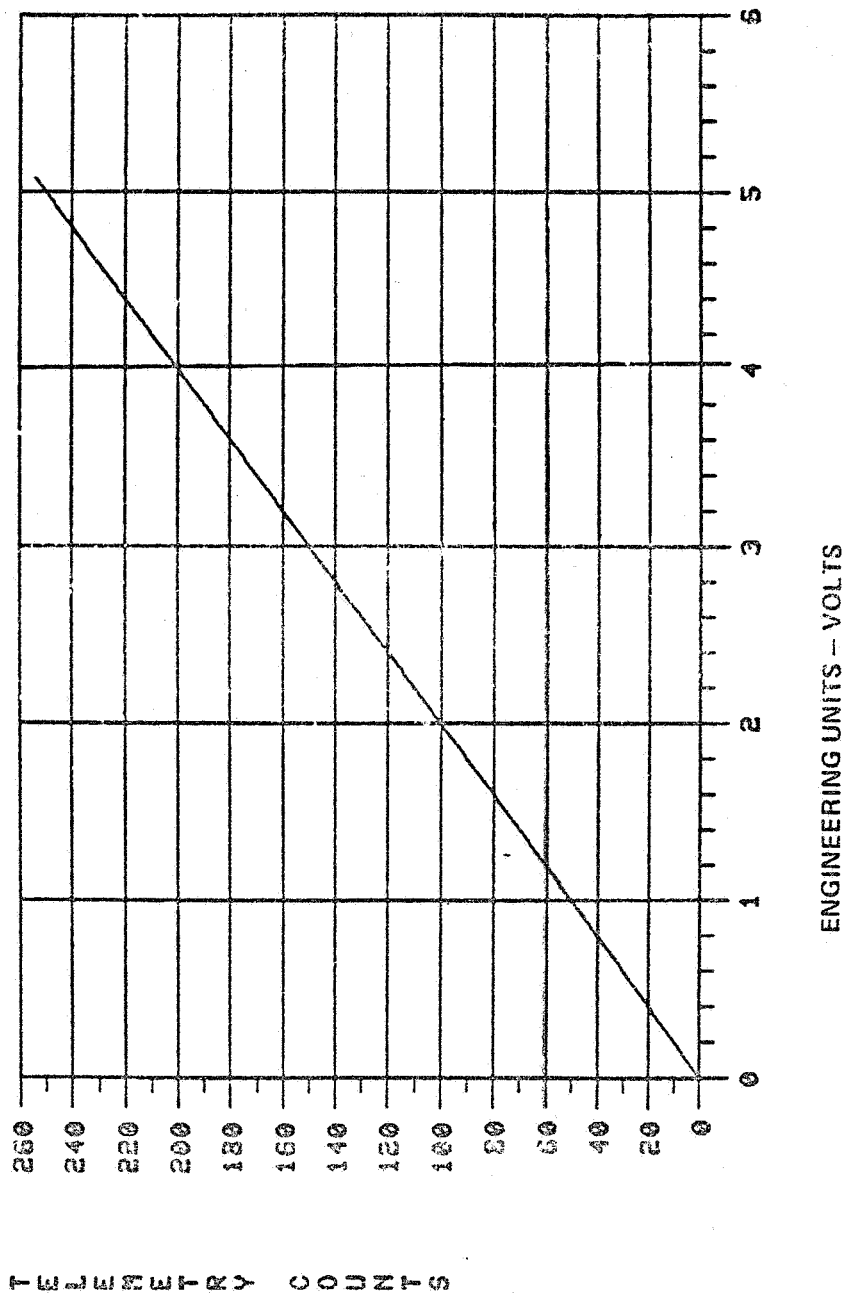


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

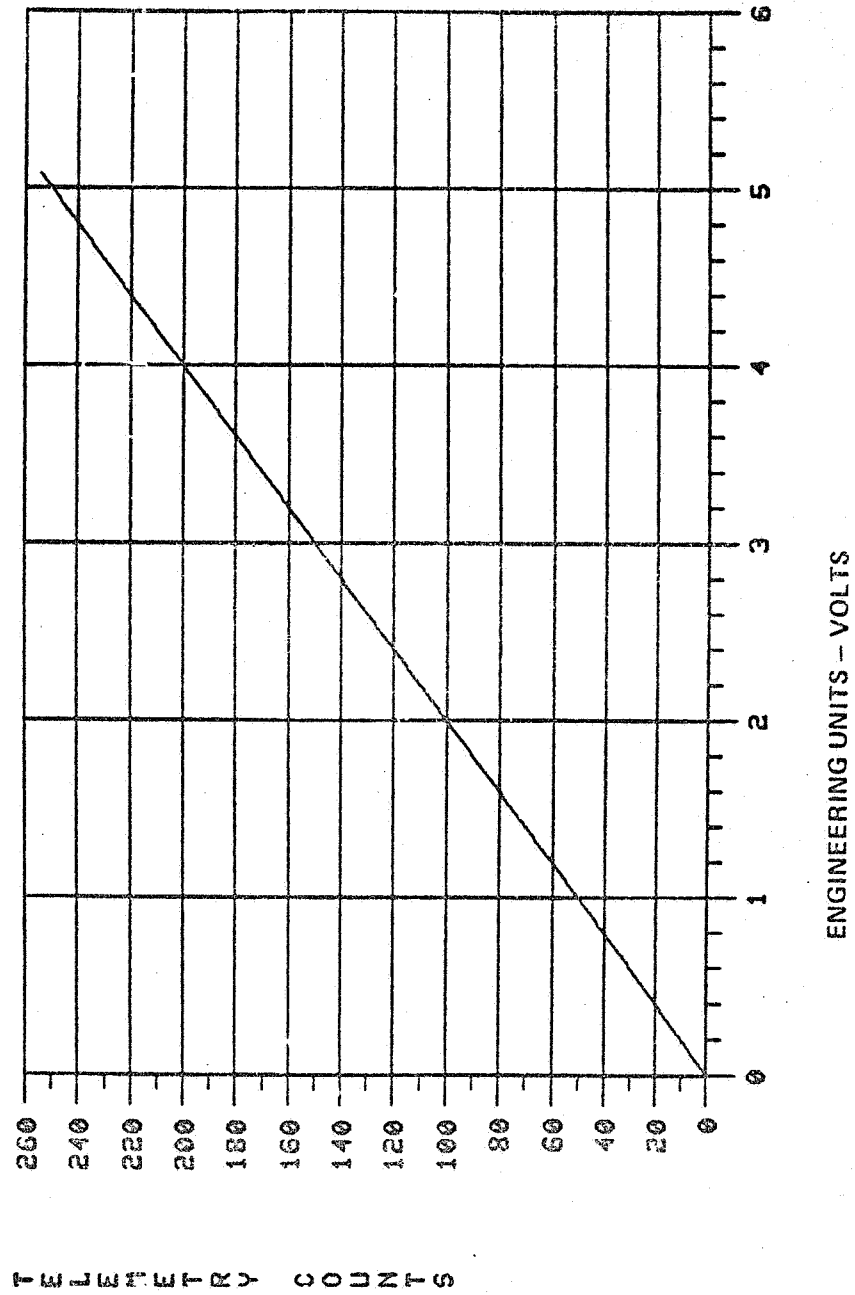
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COUNTS VS ENGINEERING UNITS FOR NIPBU2



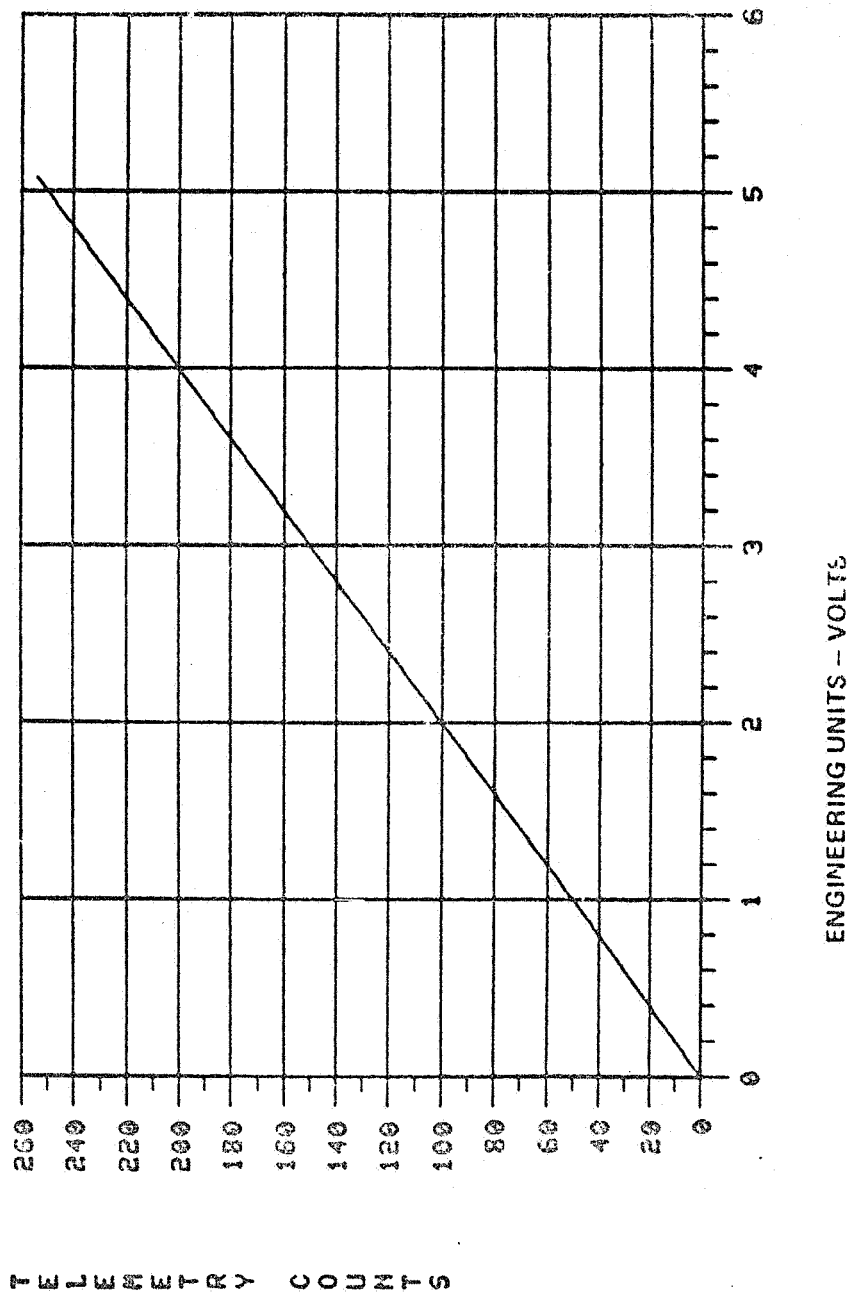
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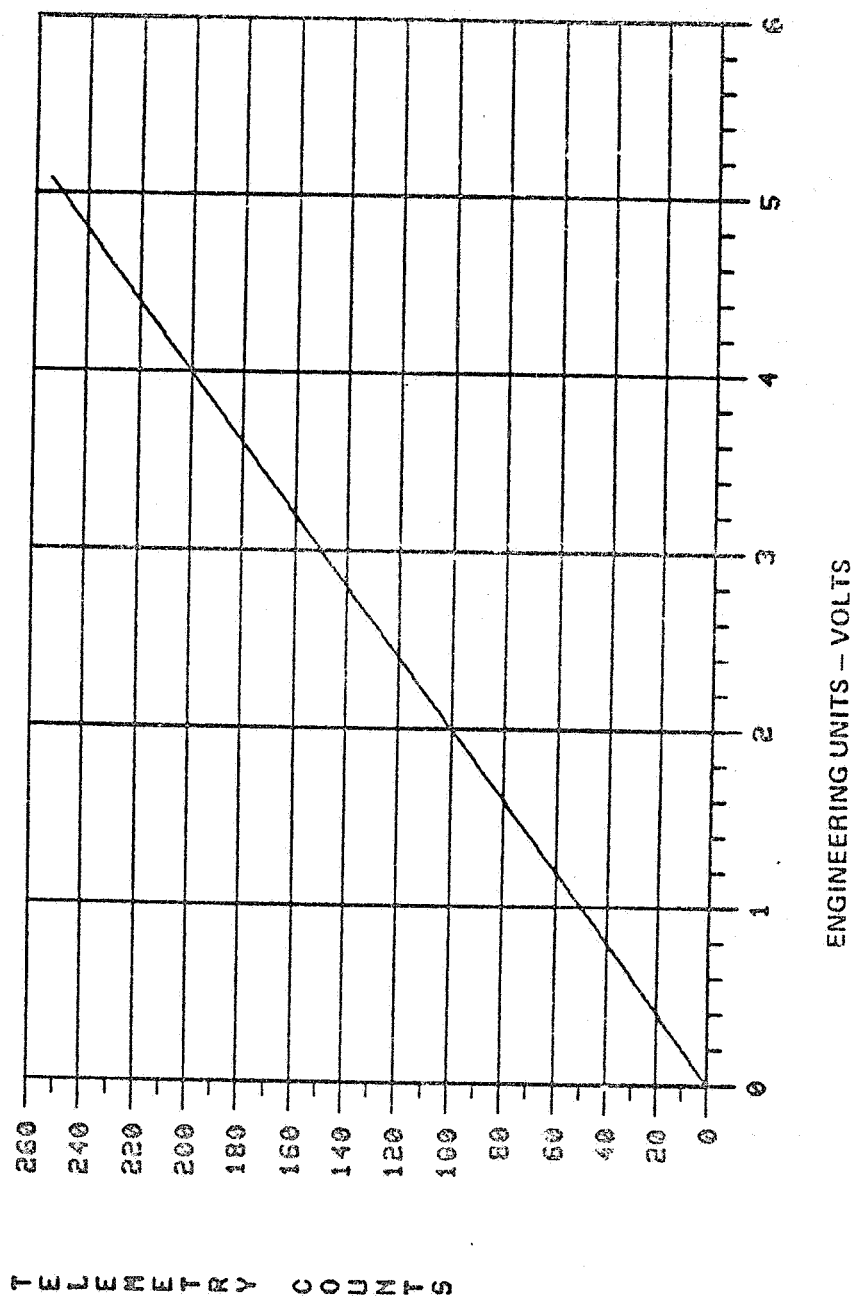
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COUNTS VS ENGINEERING UNITS FOR N1PBU4



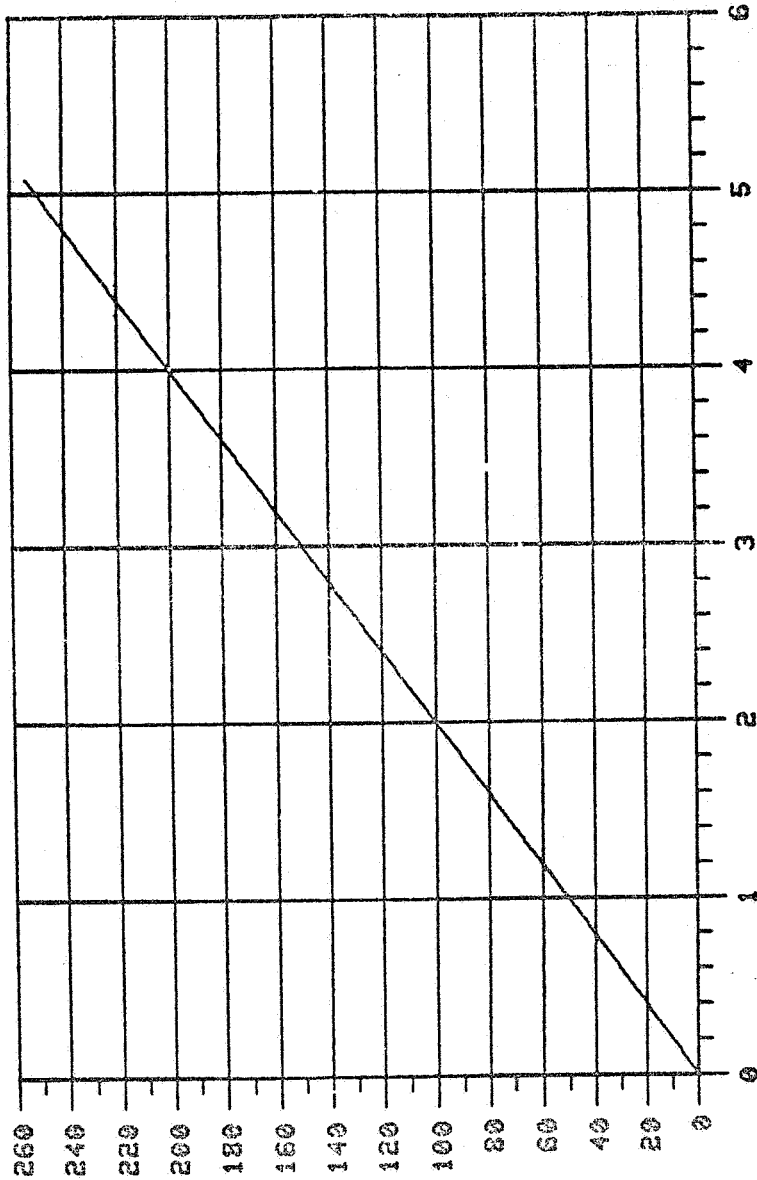
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COUNTS VS ENGINEERING UNITS FOR NIPBUS



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COUNTS VS ENGINEERING UNITS FOR NIPBUG

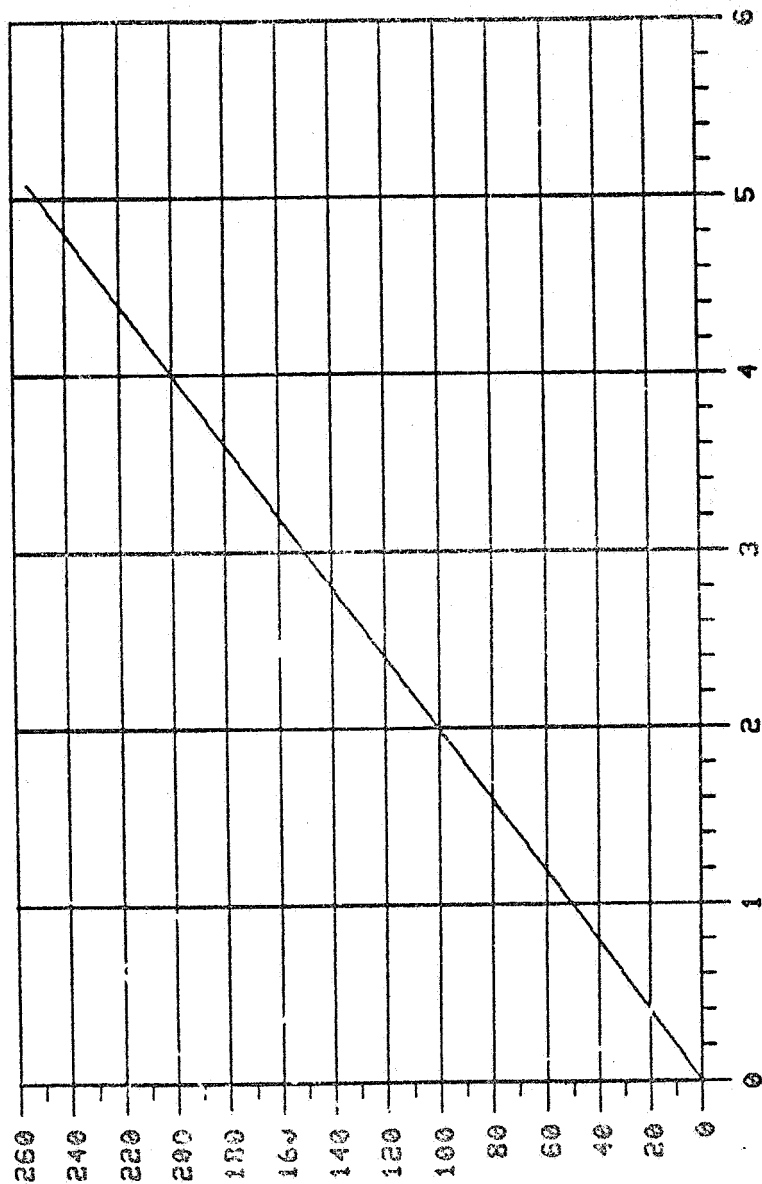


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR NIPBU7

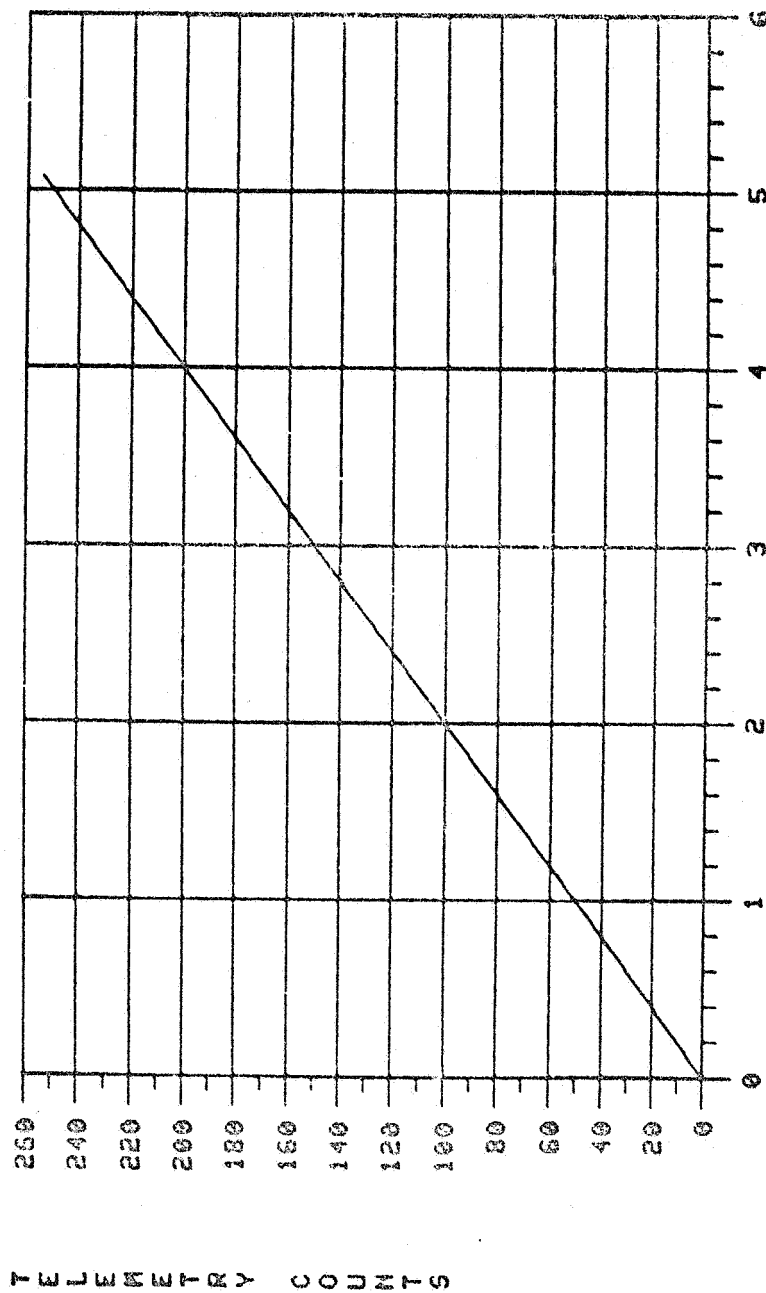


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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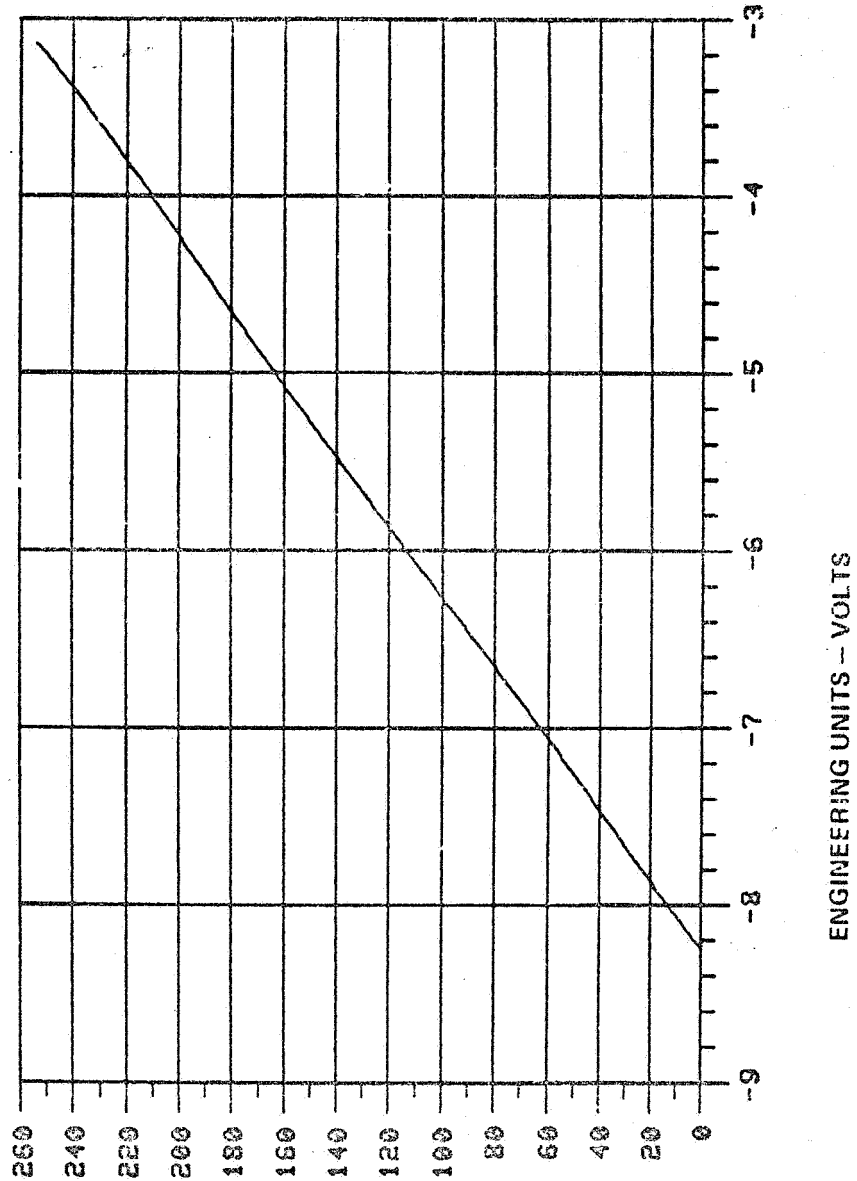
COUNTS VS ENGINEERING UNITS FOR NIPB08



ENGINEERING UNITS - VOLTS

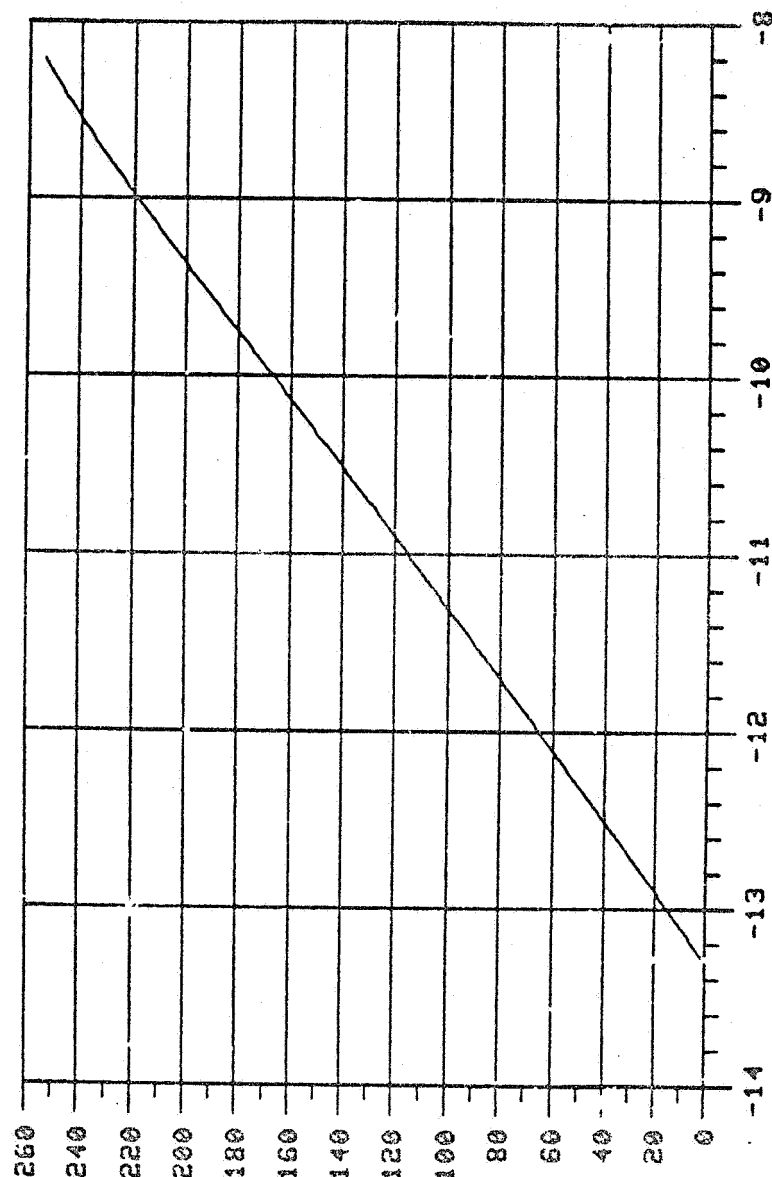
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COUNTS VS ENGINEERING UNITS FOR N1PSN6



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COUNTS VS ENGINEERING UNITS FOR N1PSN12

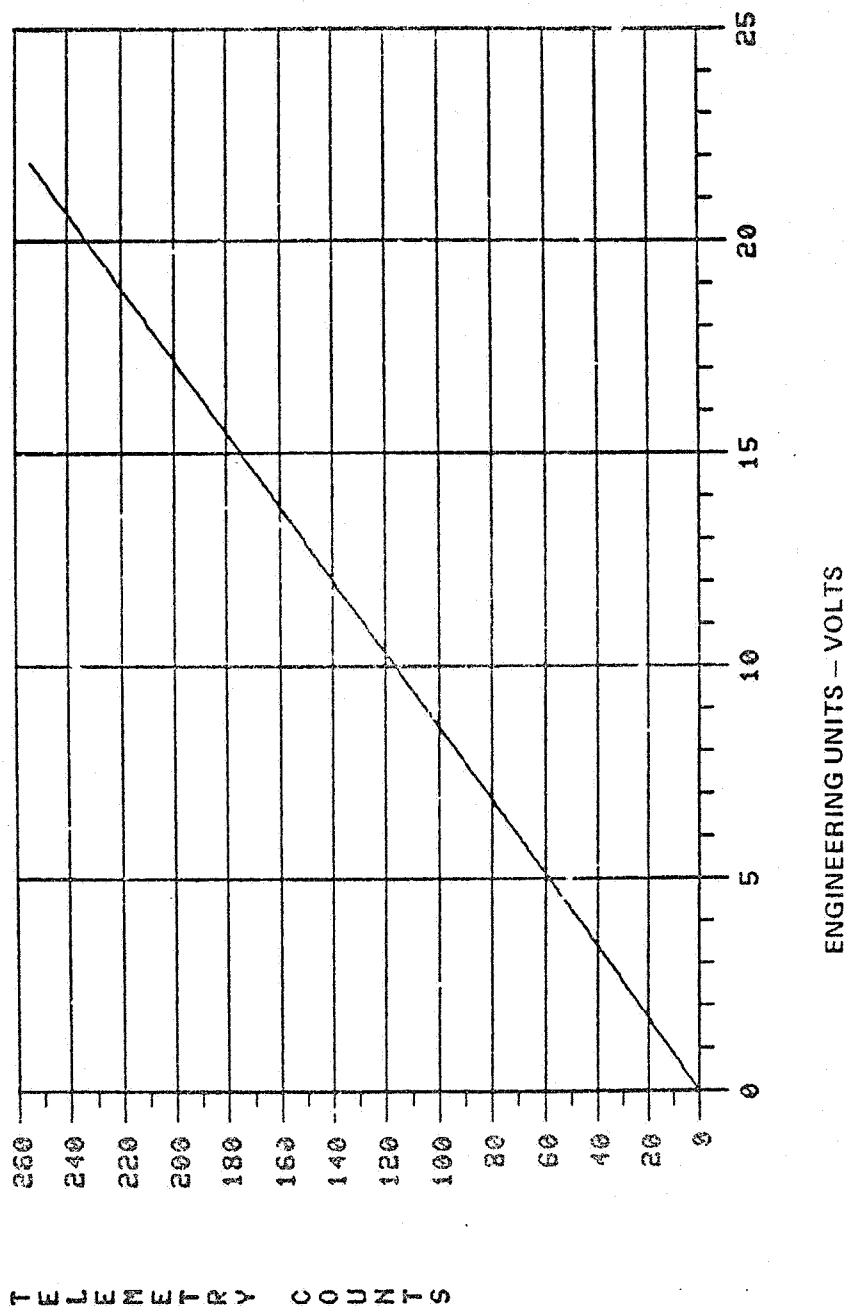


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

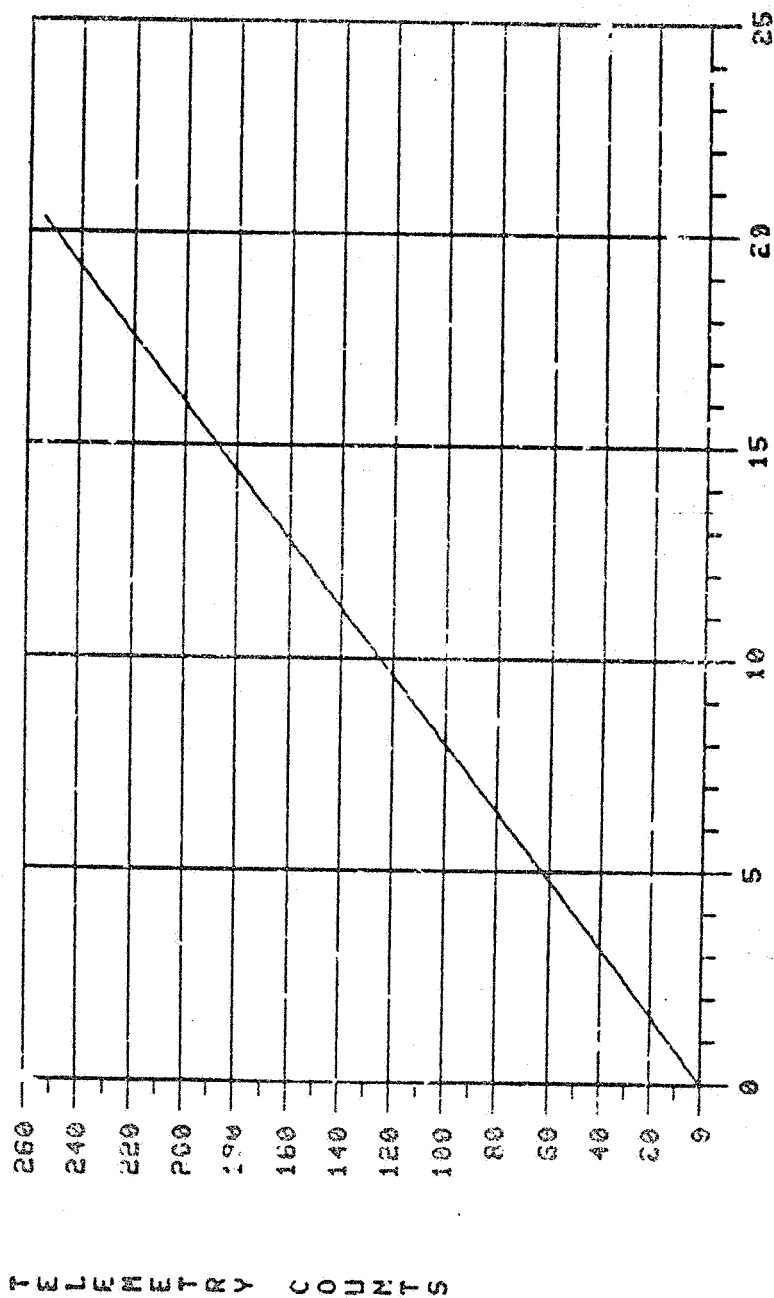
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COUNTS VS ENGINEERING UNITS FOR NIPSP15



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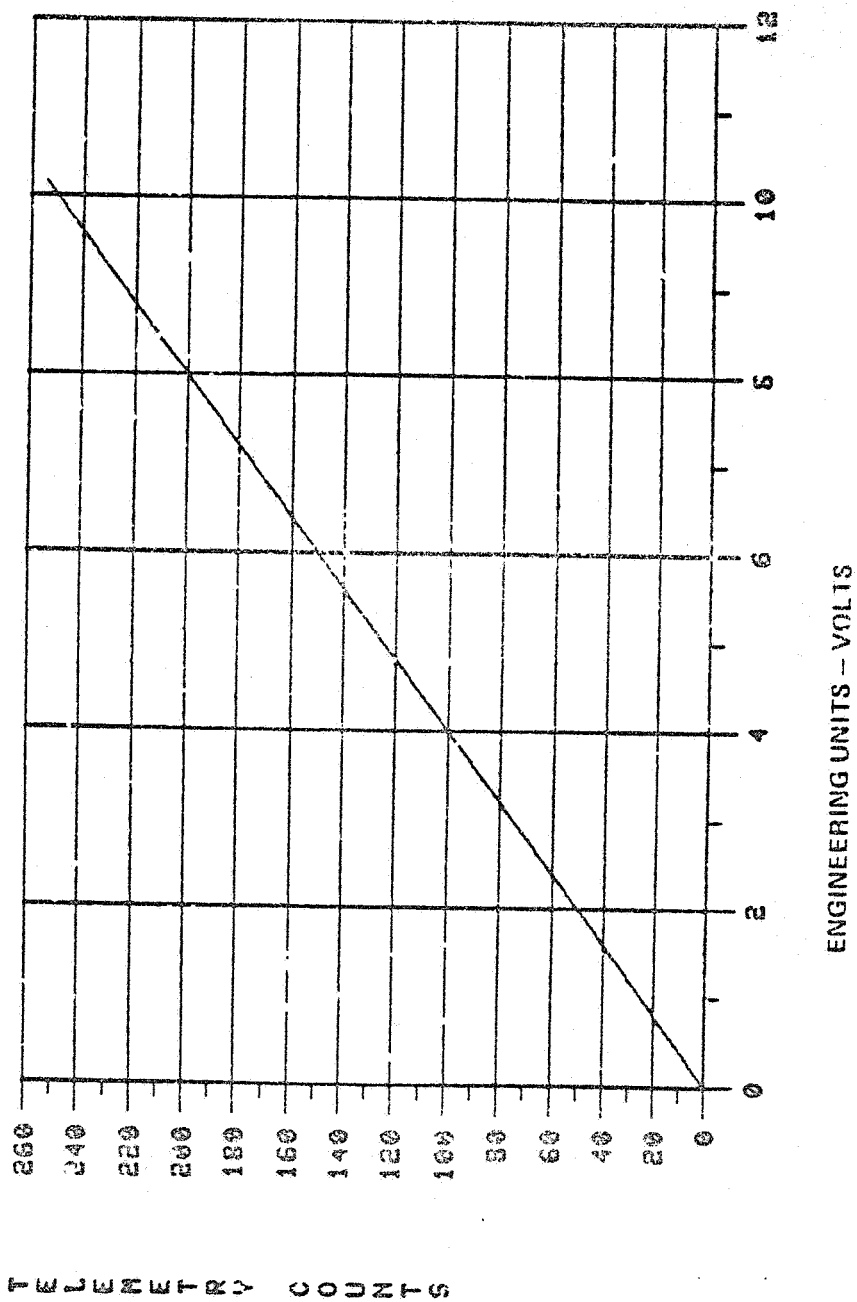
COUNTS VS ENGINEERING UNITS FOR N1PSP12



ENGINEERING UNITS - VOLTS

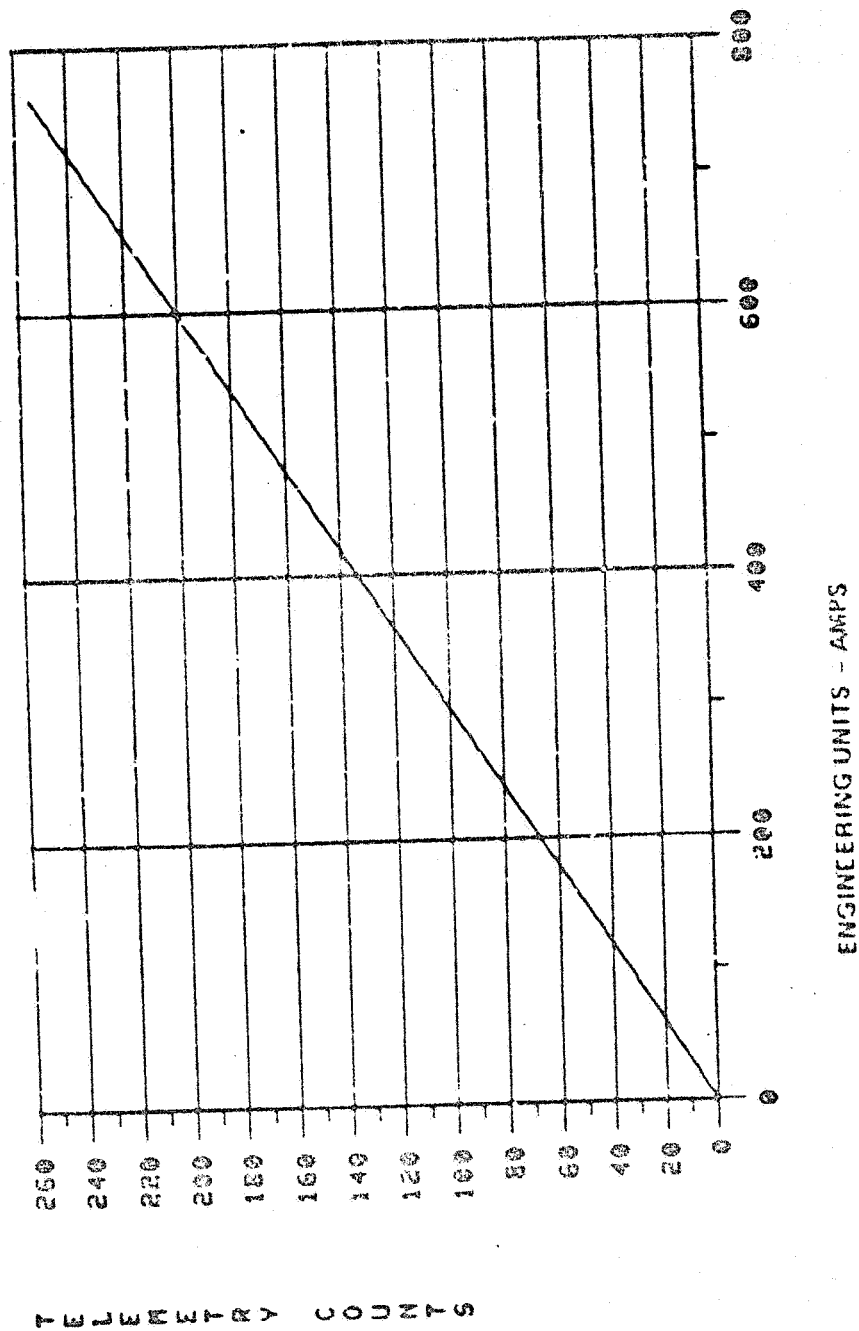
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COUNTS VS ENGINEERING UNITS FOR NIPSP5



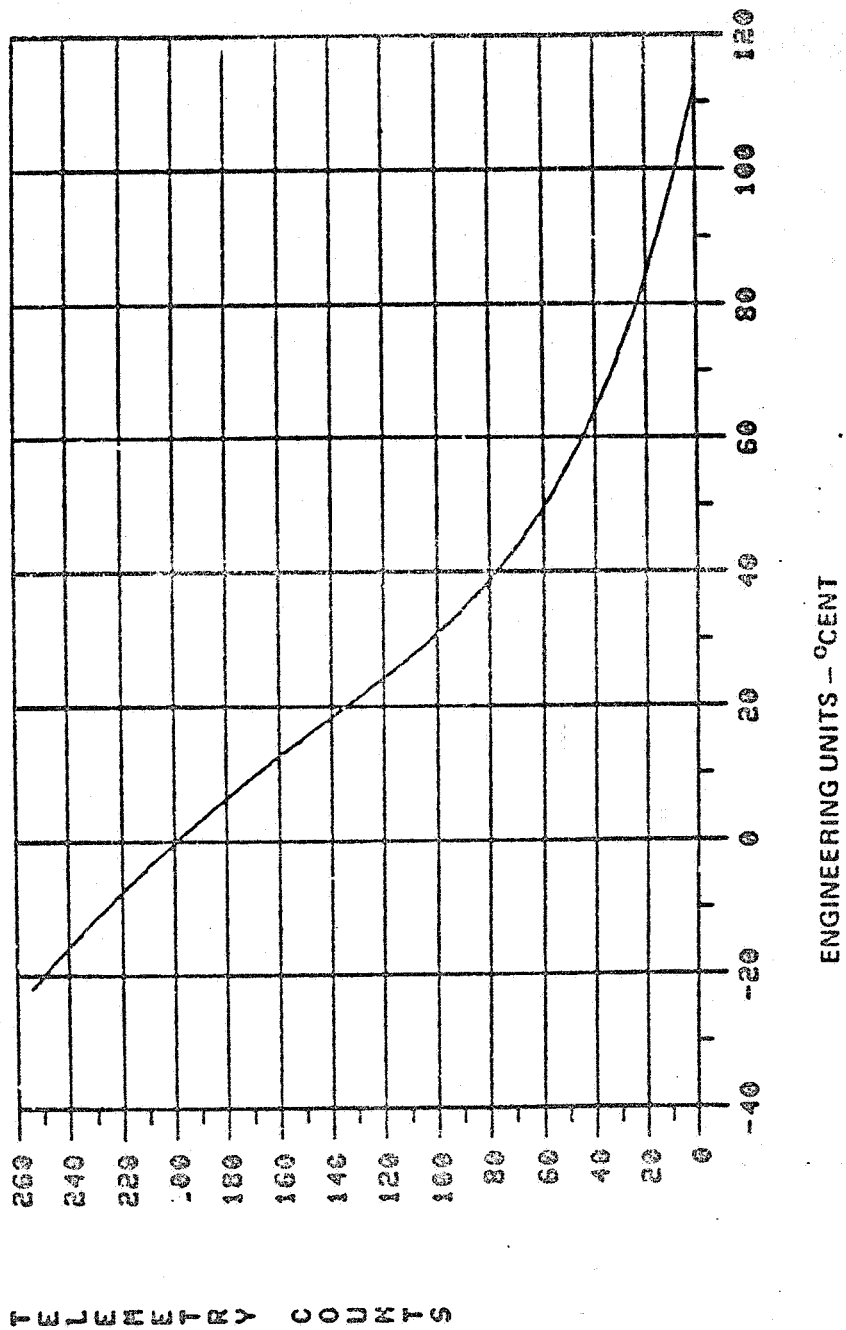
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COUNTS VS ENGINEERING UNITS FOR NIRECI



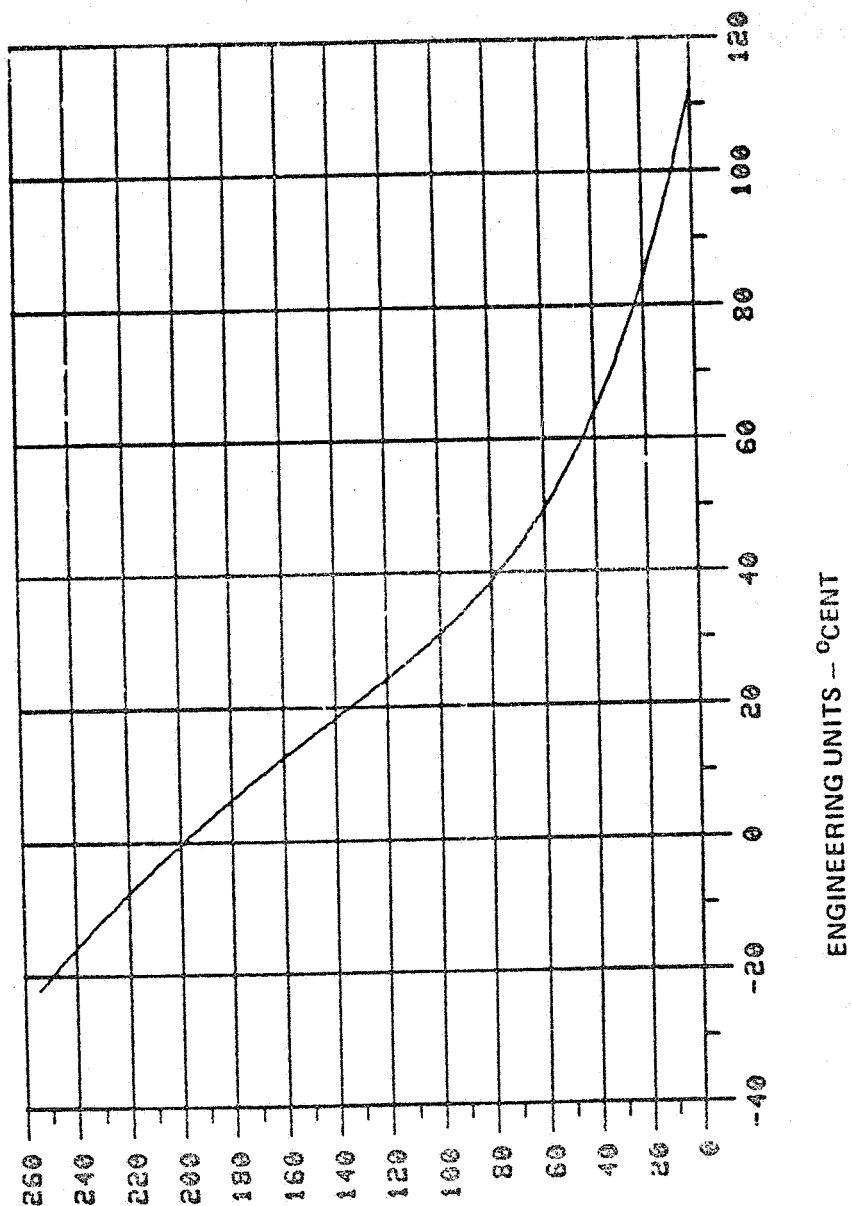
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COUNTS VS ENGINEERING UNITS FOR NITUTAP



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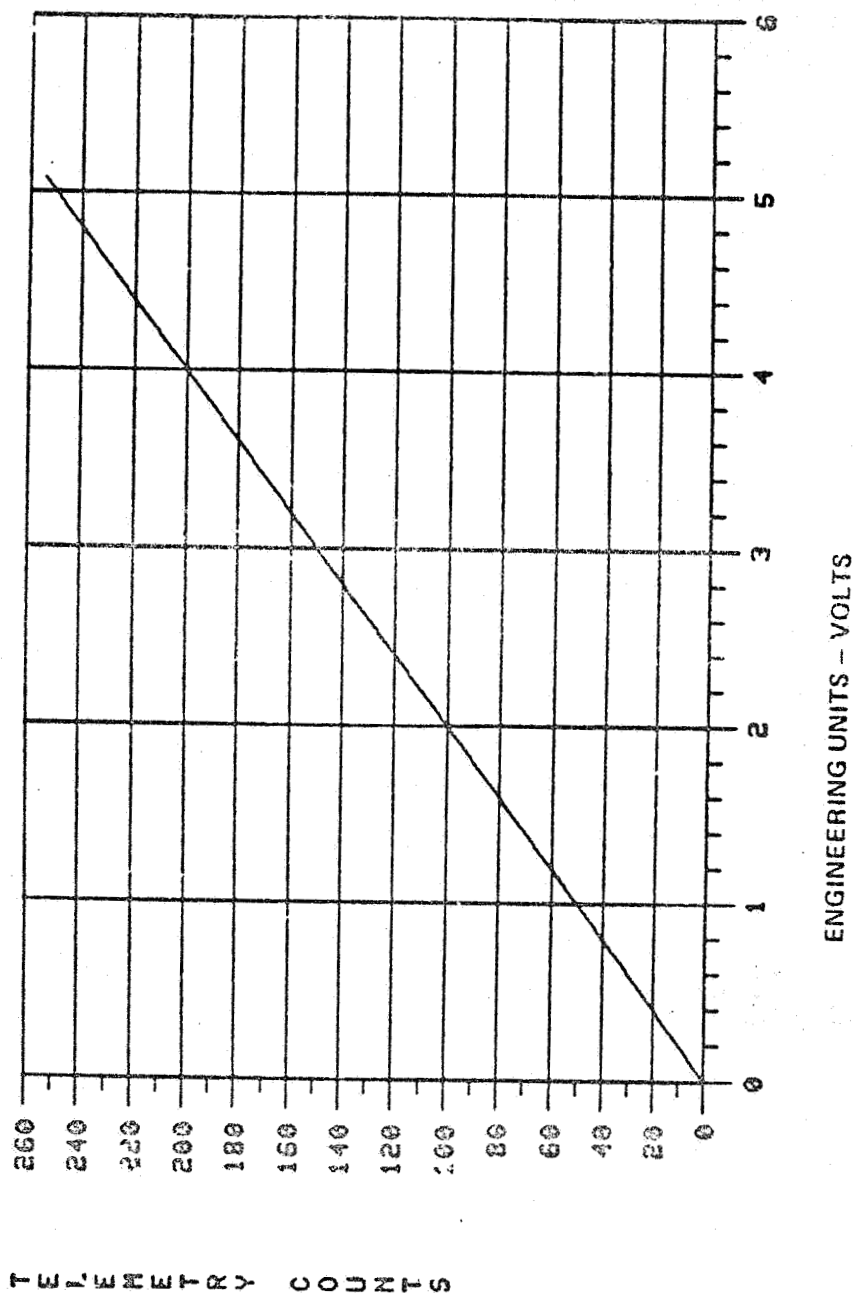
COUNTS VS ENGINEERING UNITS FOR N2EUTHP



TELEMETRY COUNTS

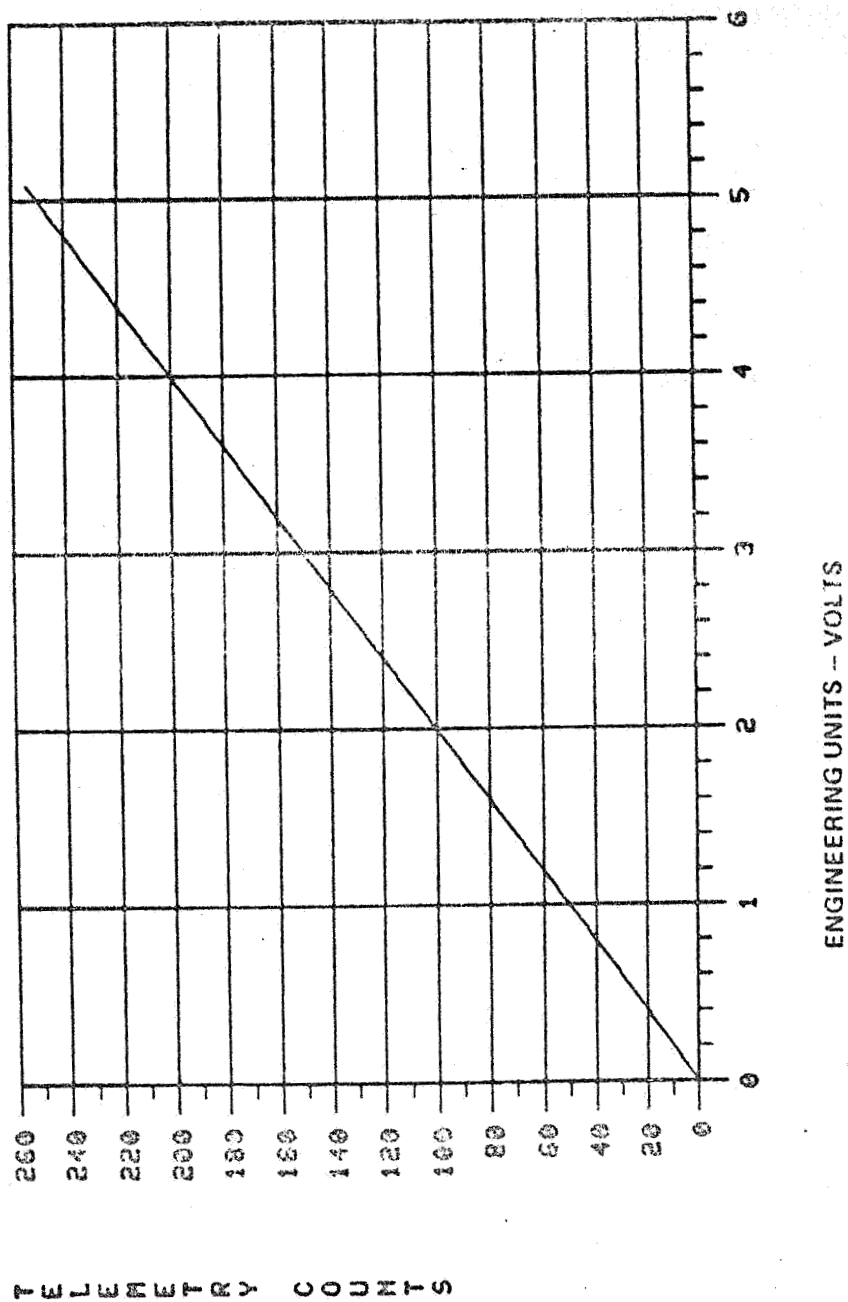
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COUNTS VS ENGINEERING UNITS FOR N2PB01



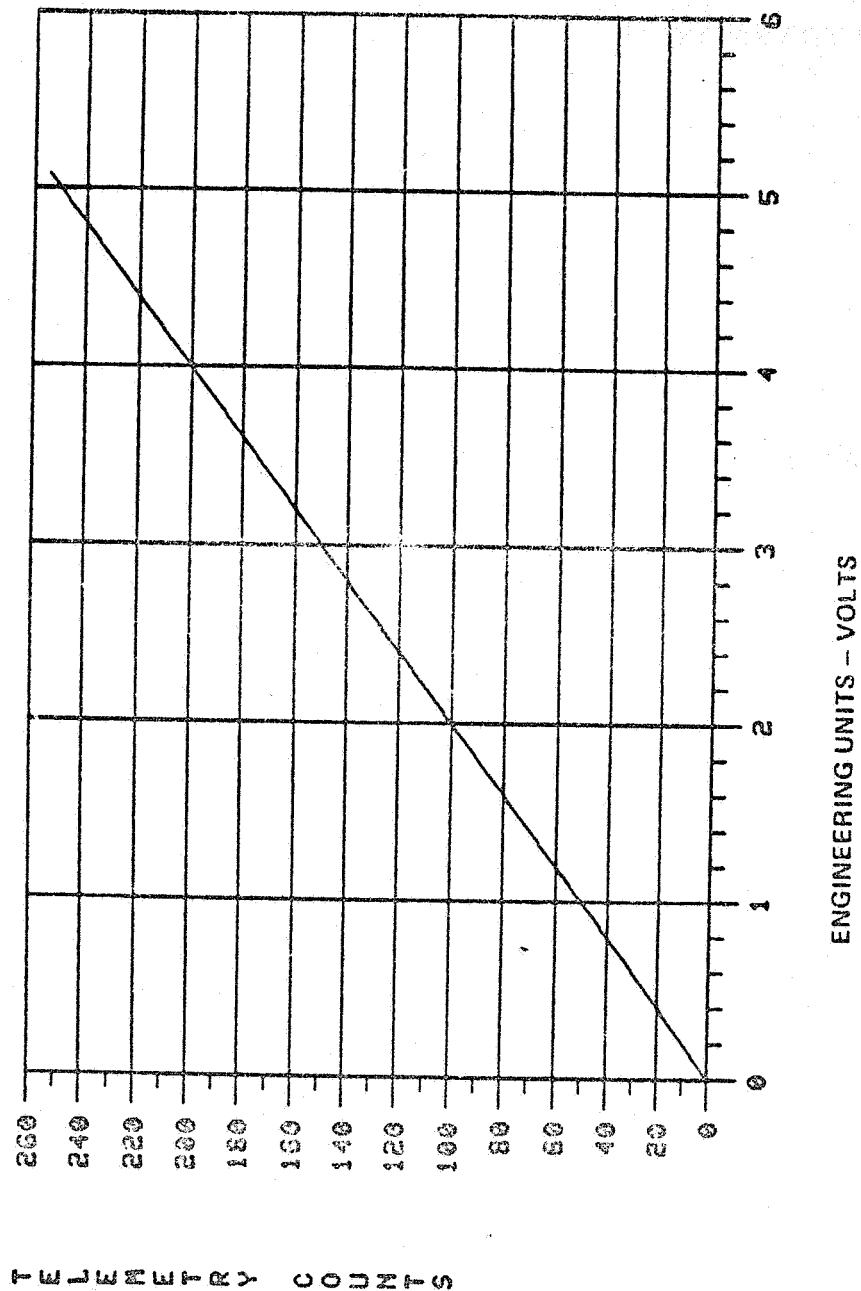
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COUNTS VS ENGINEERING UNITS FOR N2PBV2



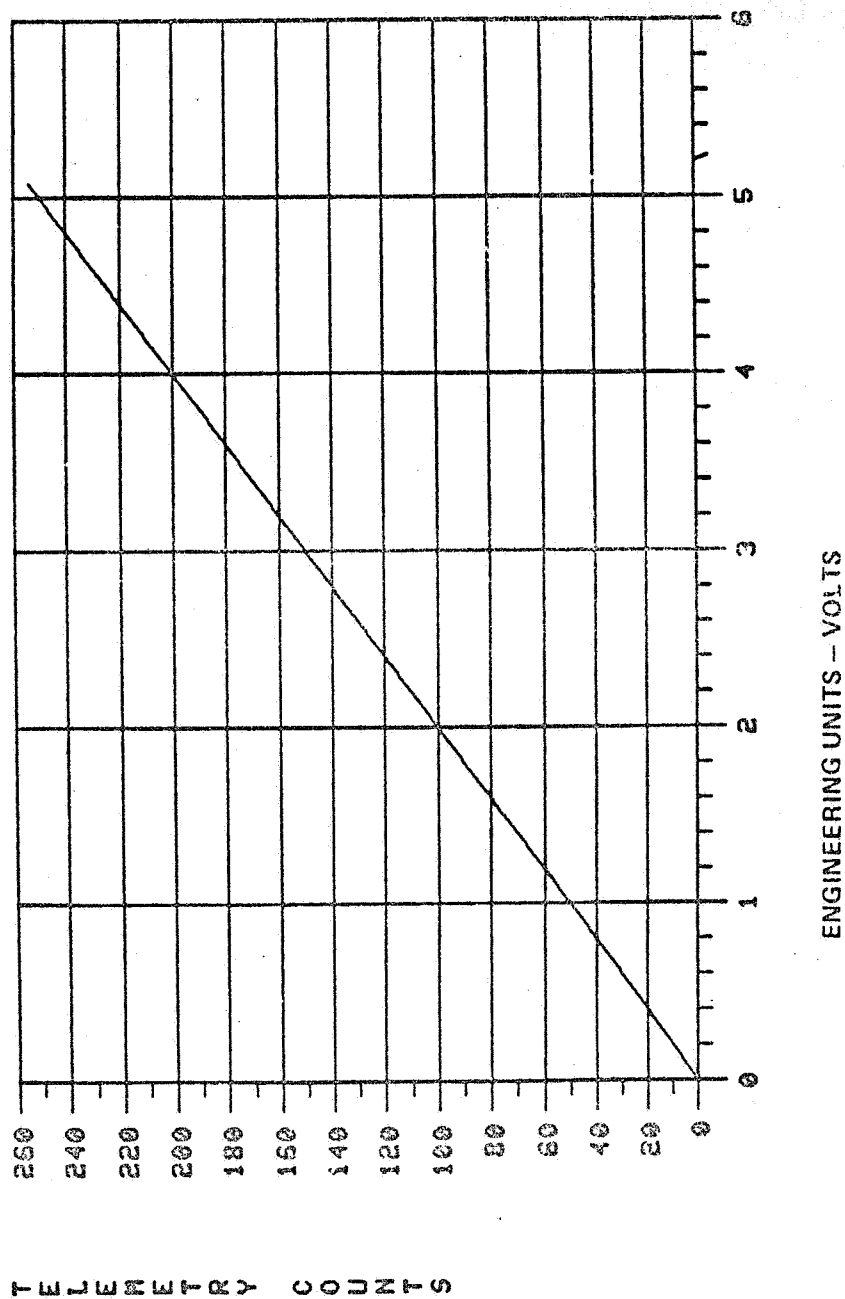
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COUNTS VS ENGINEERING UNITS FOR N2PB03



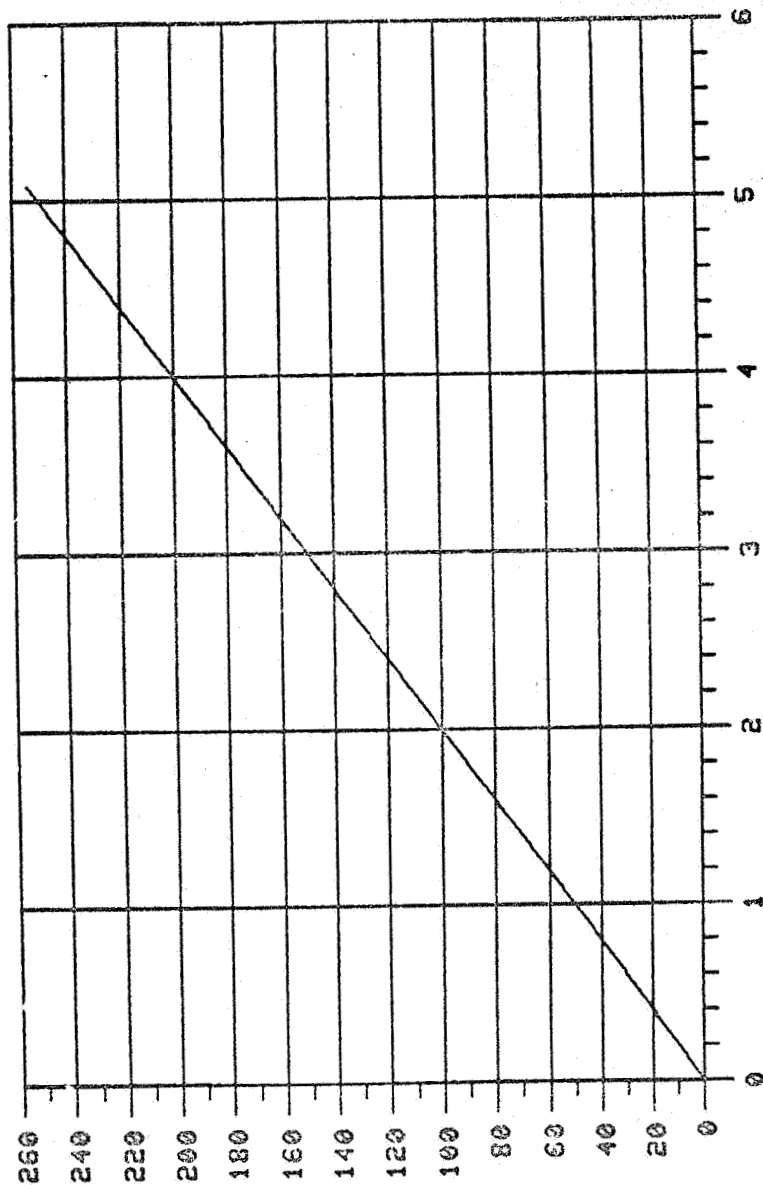
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COUNTS VS ENGINEERING UNITS FOR N2PBU4



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COUNTS VS ENGINEERING UNITS FOR N2PBUS

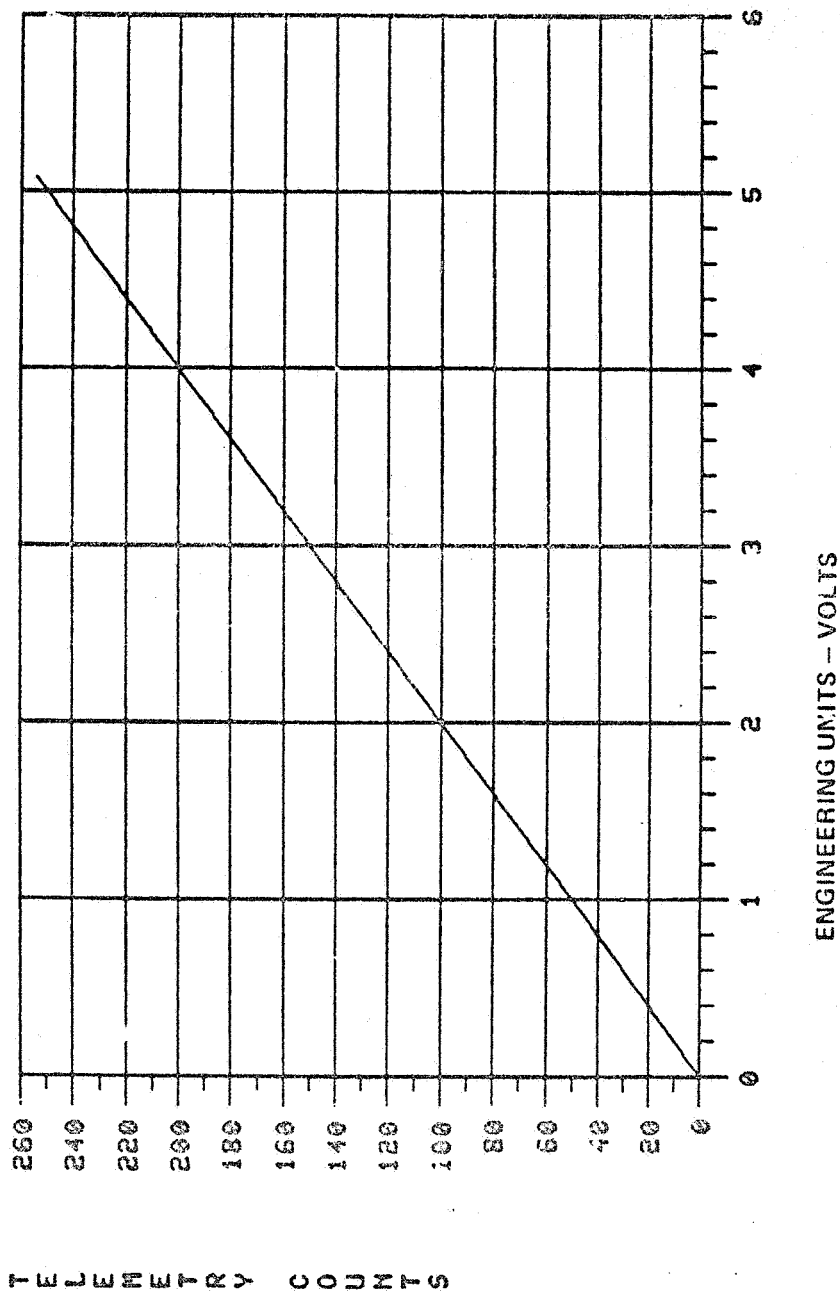


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

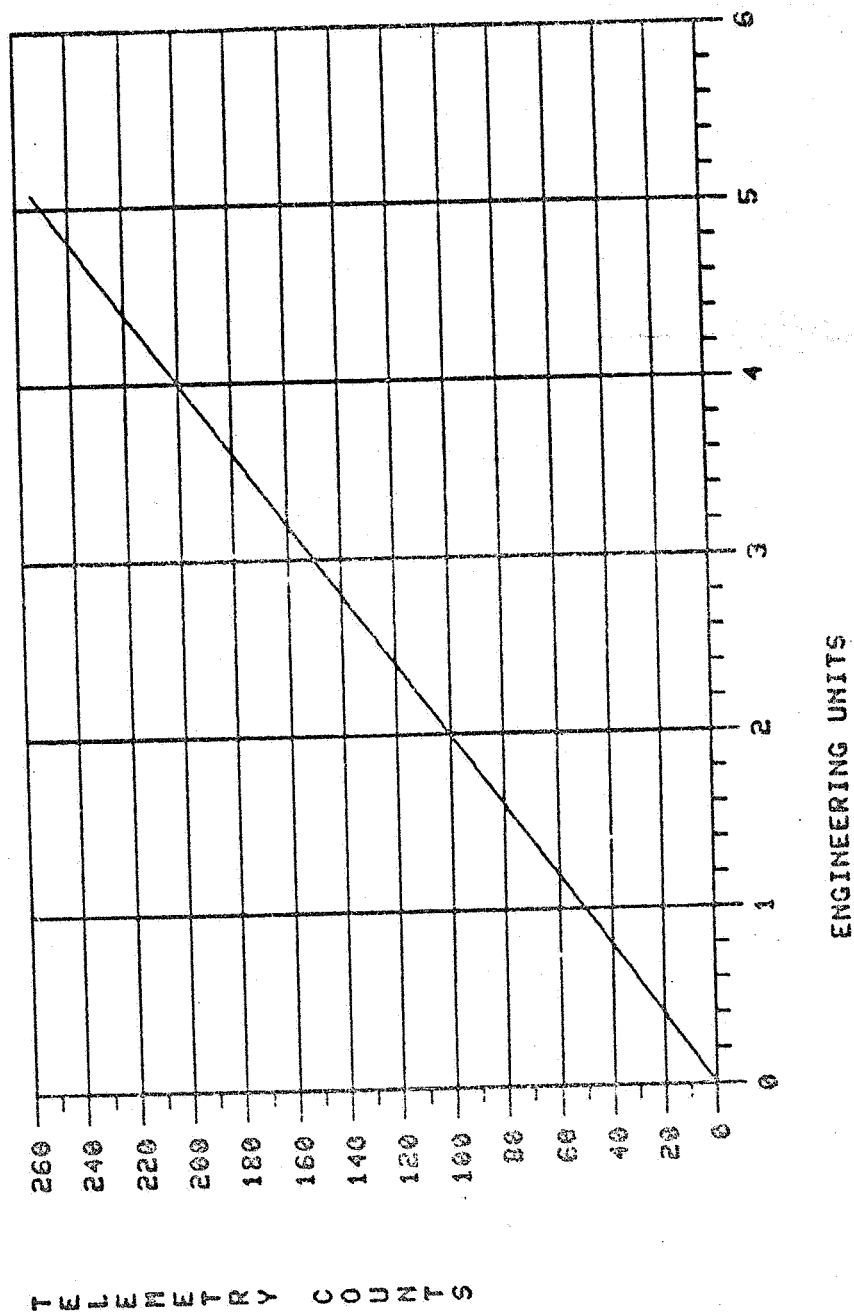
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COUNTS VS ENGINEERING UNITS FOR N2PBUS



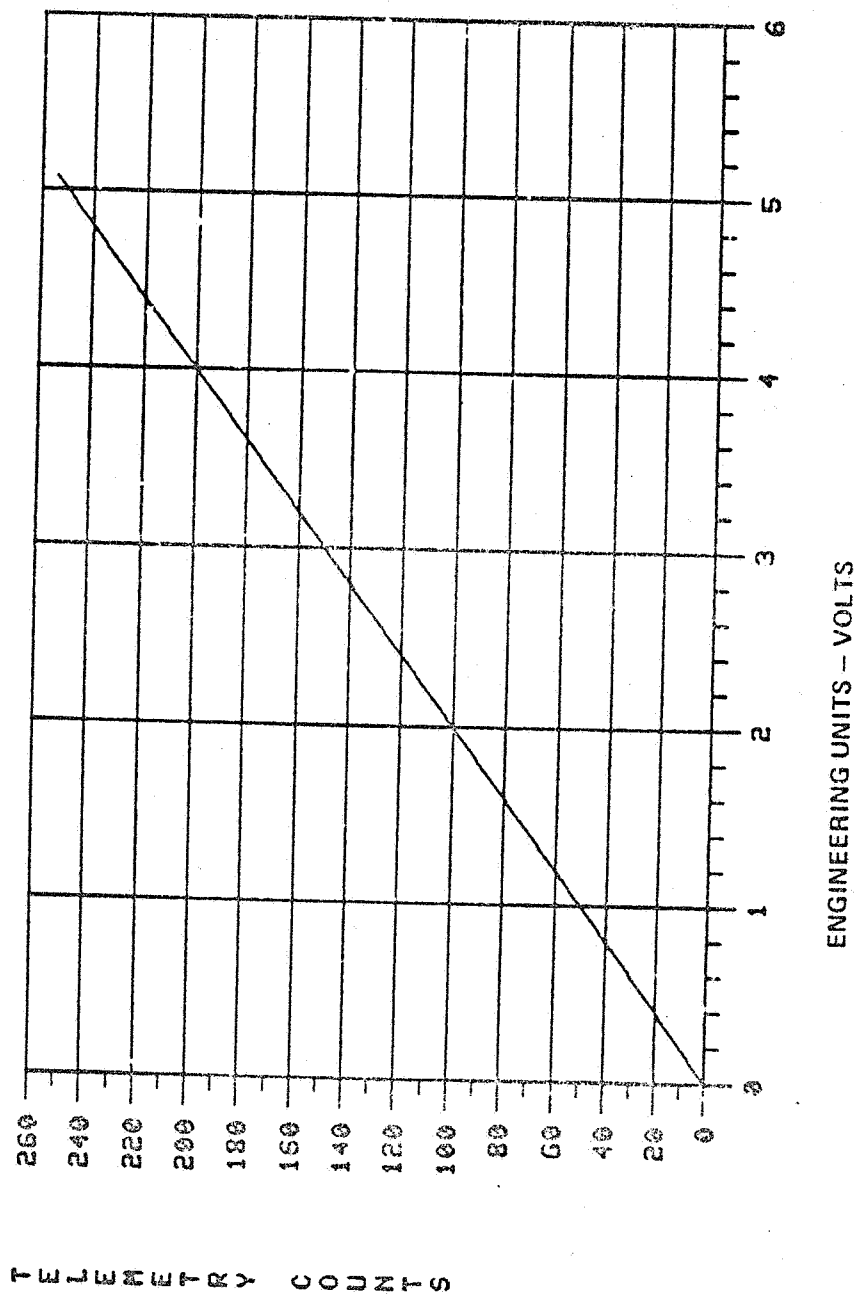
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COUNTS VS ENGINEERING UNITS FOR N2PB07



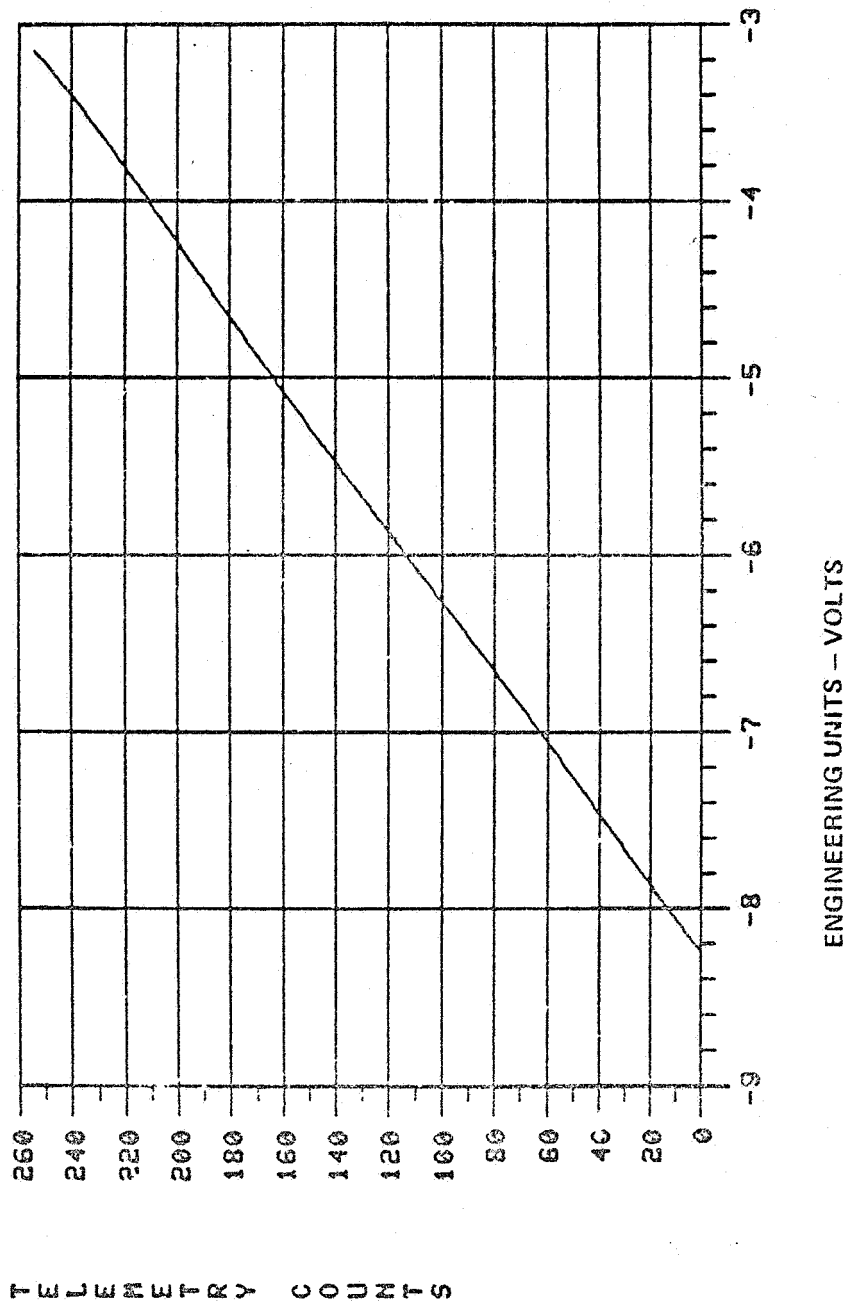
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COUNTS VS ENGINEERING UNITS FOR N2PB08



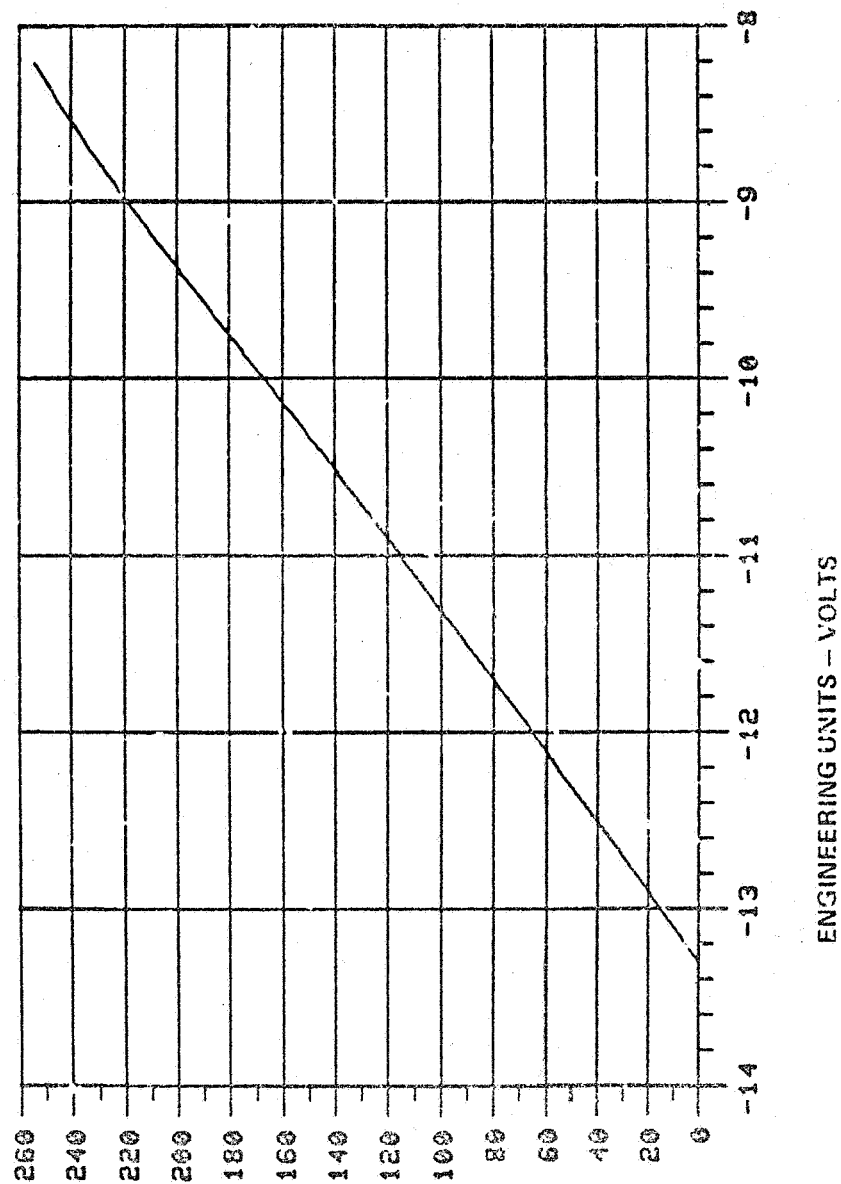
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COUNTS VS ENGINEERING UNITS FOR N2FSN6



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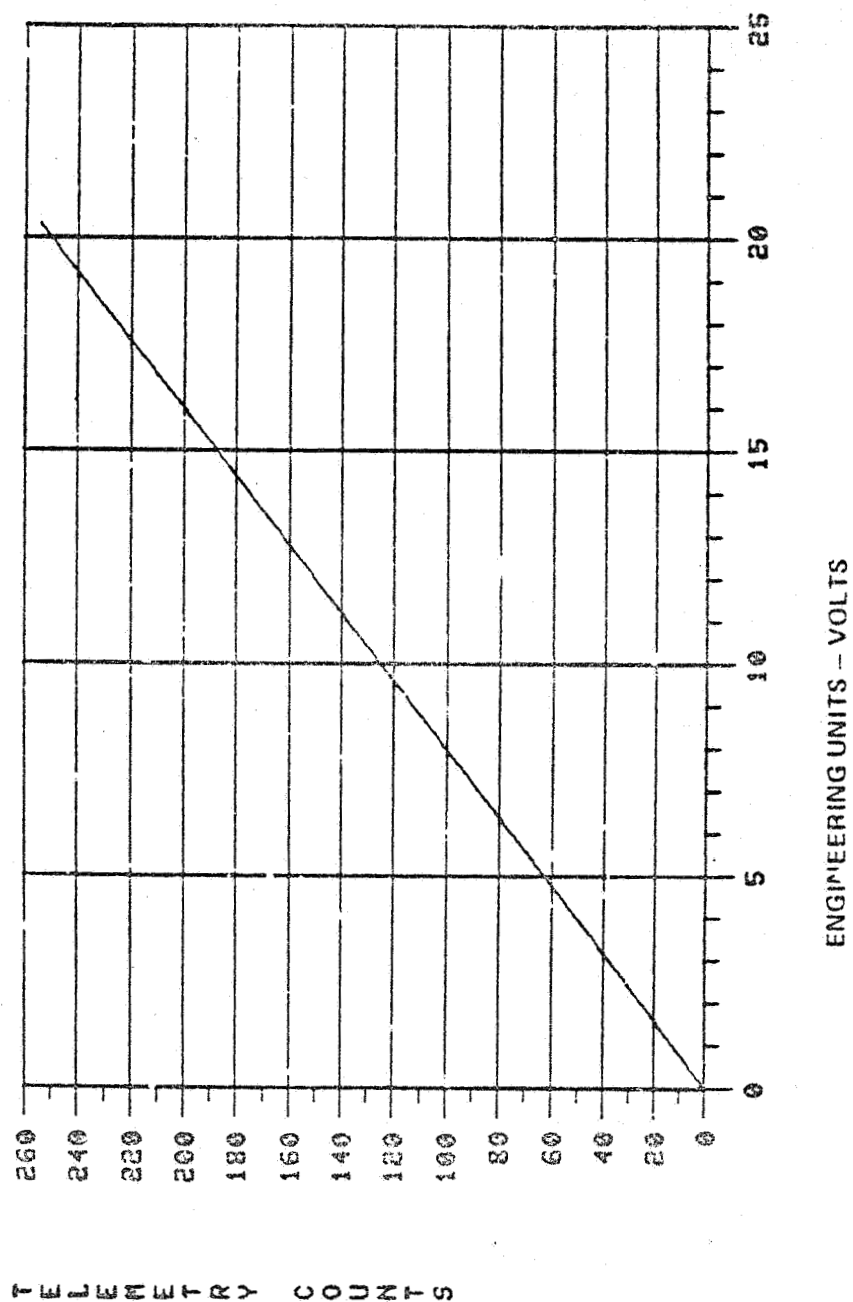
COUNTS VS ENGINEERING UNITS FOR N2PSN12



TELEMETRY COUNTS

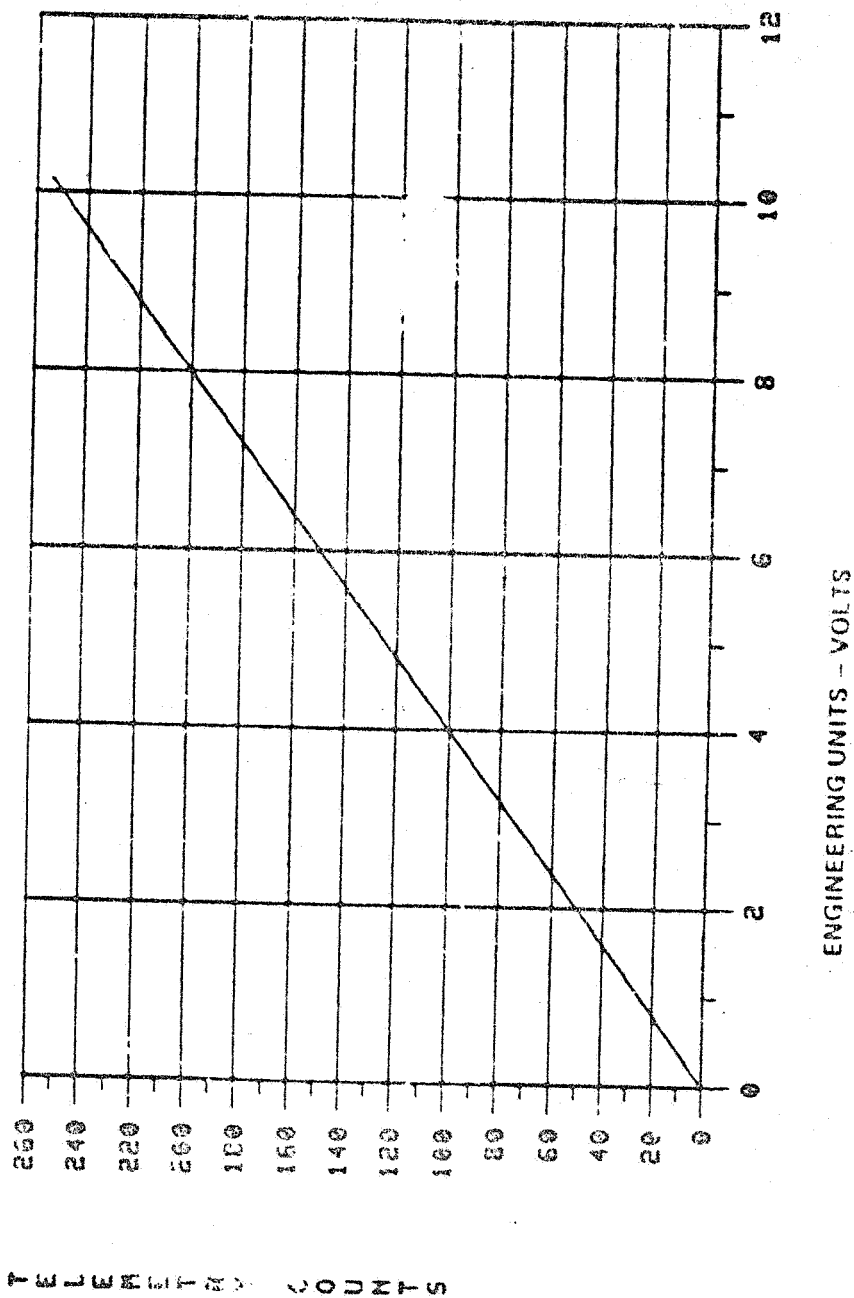
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COUNTS VS ENGINEERING UNITS FOR N2PSP12



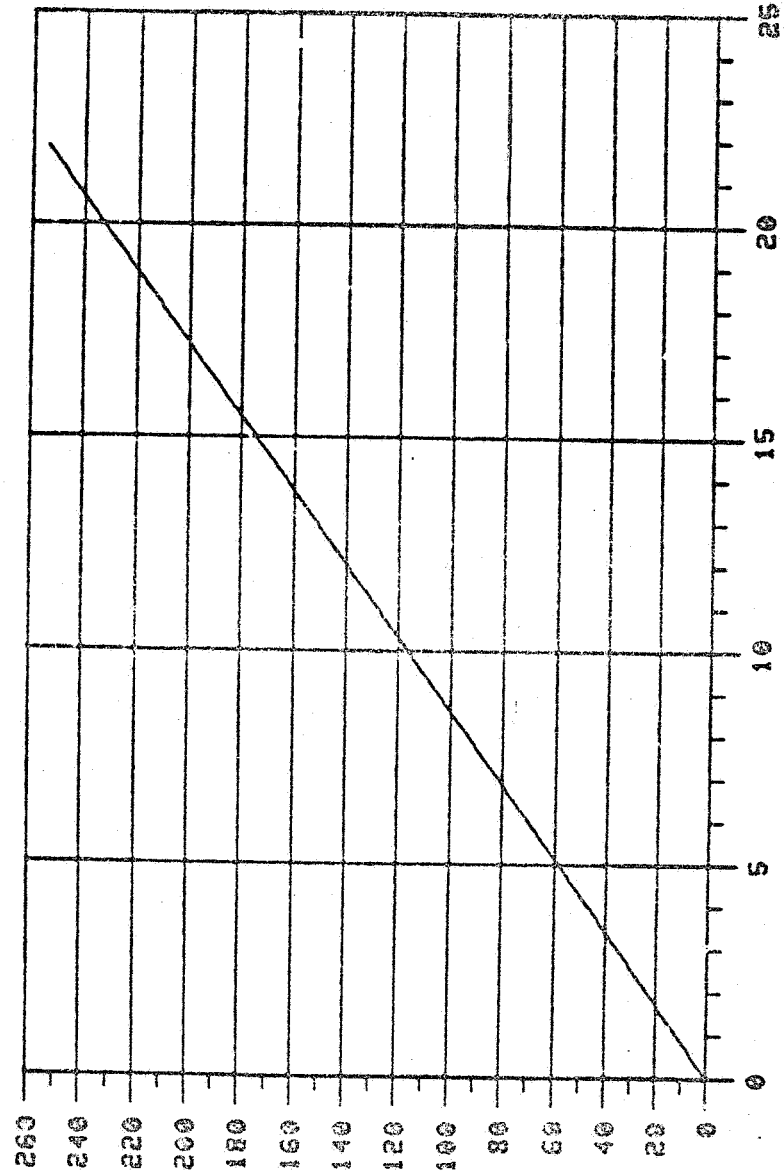
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COUNTS VS ENGINEERING UNITS FOR W2PSP5



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COUNTS VS ENGINEERING UNITS FOR N2PSP15

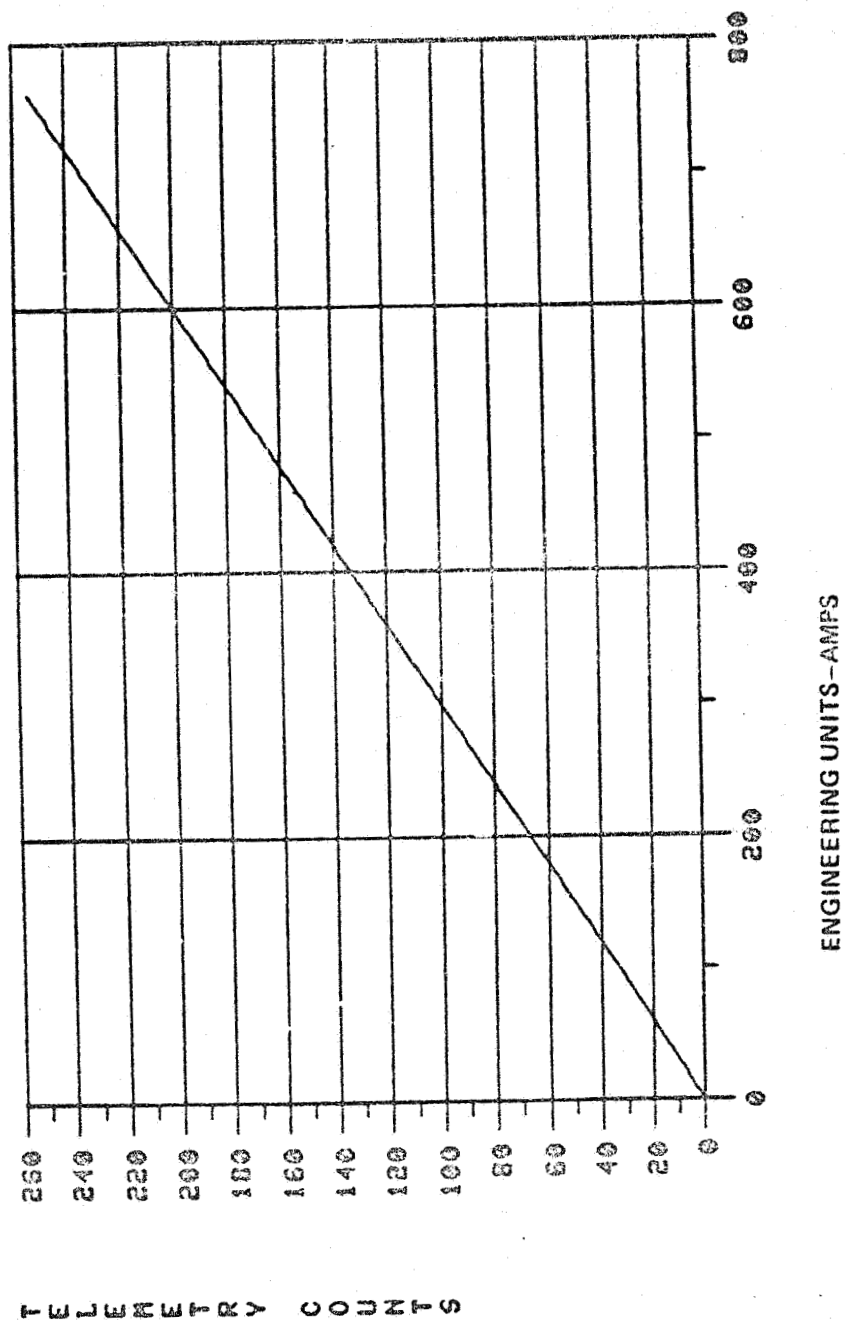


TELEMETRY COUNTS

ENGINEERING UNITS - VOLTS

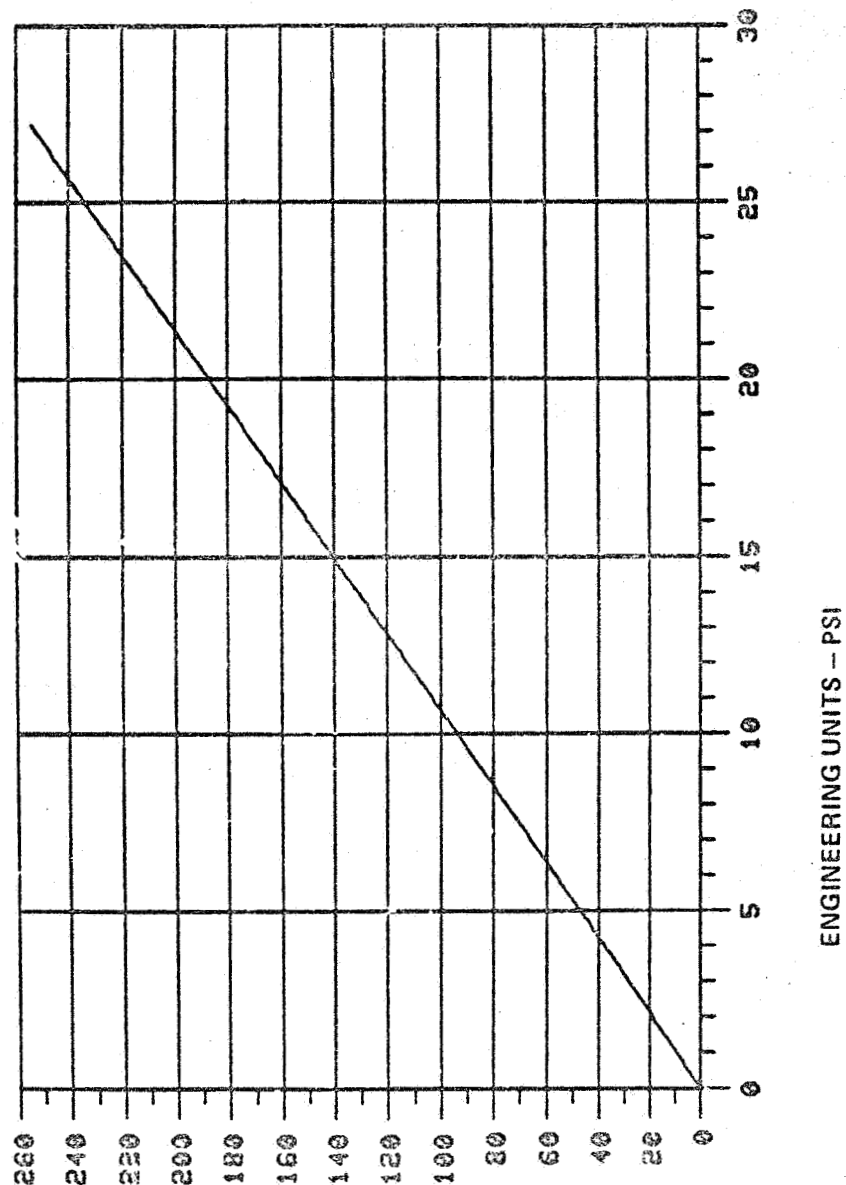
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COUNTS VS ENGINEERING UNITS FOR N2RECI



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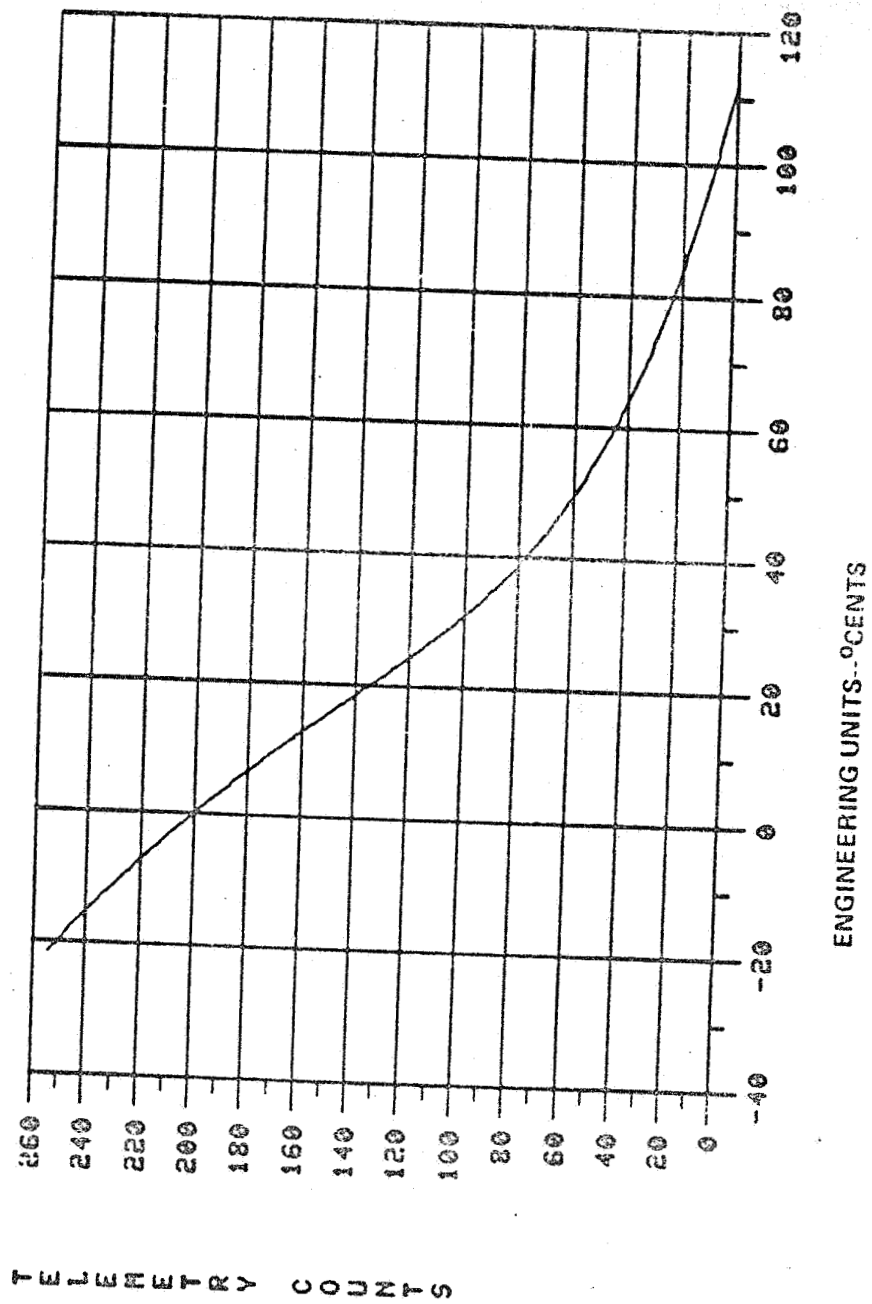
COUNTS VS ENGINEERING UNITS FOR N2TUPSI



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR N2TUTHP



SVS-10266/3A
Appendix A
June 1982

ON-BOARD COMPUTER (OBC) TELEMETRY CALIBRATION DATA

```
*
*****
*
*
* OBC CONTRIBUTION TO TELEMETRY *
*
* CALIBRATION DEFINITION FILE      *
*
*
* CREATED:29-APR-82 AT 14:13:44
* FROM:DBO:[RICH.MAST]TELEMETRY.MAS;18
* OF:29-APR-1982 14:05:04.03
*
*****
*
*****
*
*
* O B C   R E P O R T : ACS%01 -ACS
*
*****
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DEFINE OTHETAY ,0.0,8.33763E-10 ;UNITS:RADIAN DSP:DEGREE MX:1.79049E+00 #2
DEFINE OTHETAZ ,0.0,8.33763E-10 ;UNITS:RADIAN DSP:DEGREE MX:1.79049E+00 #3
DEFINE ONGX ,0.0,7.81250E-03 ;UNITS:COUNTS DSP:COUNTERS IX:1.67772E+07 #4
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LSD-WPC-263

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SVS-10266/3A

Appendix A

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DEFINE ONGZF ,0.0,7.81250E-03 ;UNITS:COUNTS DSP:COUNTS MX:1.67772E+07 #9

*
* O B C R E P O R T : ACS#02 -ACS
*

DEFINE OMGX ,0.0,8.33763E-10 ;UNITS:RAD/CY DSP:DEG/CY MX:1.79049E+00 #10
DEFINE OMGY ,0.0,8.33763E-10 ;UNITS:RAD/CY DSP:DEG/CY MX:1.79049E+00 #11
DEFINE OMGZ ,0.0,8.33763E-10 ;UNITS:RAD/CY DSP:DEG/CY MX:1.79049E+00 #12
DEFINE OMX ,0.0,8.33763E-10 ;UNITS:RAD/SE DSP:DEG/SE MX:1.79049E+00 #13
DEFINE OMW ,0.0,8.33763E-10 ;UNITS:RAD/SE DSP:DEG/SE MX:1.79049E+00 #14
DEFINE OMWZ ,0.0,8.33763E-10 ;UNITS:RAD/SE DSP:DEG/SE MX:1.79049E+00 #15
DEFINE OEX ,0.0,1.06722E-07 ;UNITS:RADIAN DSP:DEGREE MX:2.29183E+02 #16
DEFINE OEY ,0.0,1.06722E-07 ;UNITS:RADIAN DSP:DEGREE MX:2.29183E+02 #17
DEFINE OEZ ,0.0,1.06722E-07 ;UNITS:RADIAN DSP:DEGREE MX:2.29183E+02 #18
DEFINE OEPA1 ,0.0,9.31323E-10 ;UNITS:N.D. DSP:N.D. MX:2.00000E+00 #19
DEFINE OEPA2 ,0.0,9.31323E-10 ;UNITS:N.D. DSP:N.D. MX:2.00000E+00 #20
DEFINE OEPA3 ,0.0,9.31323E-10 ;UNITS:N.D. DSP:N.D. MX:2.00000E+00 #21
DEFINE OEPA4 ,0.0,9.31323E-10 ;UNITS:N.D. DSP:N.D. MX:2.00000E+00 #22

*
* O B C R E P O R T : ACS#03 -ACS
*

DEFINE OEPD1 ,0.0,9.31323E-10 ;UNITS:N.D. DSP:N.D. MX:2.00000E+00 #23
DEFINE OEPD2 ,0.0,9.31323E-10 ;UNITS:N.D. DSP:N.D. MX:2.00000E+00 #24
DEFINE OEPD3 ,0.0,9.31323E-10 ;UNITS:N.D. DSP:N.D. MX:2.00000E+00 #25
DEFINE OEPD4 ,0.0,9.31323E-10 ;UNITS:N.D. DSP:N.D. MX:2.00000E+00 #26
DEFINE OEPC1 ,0.0,9.31323E-10 ;UNITS:N.D. DSP:N.D. MX:2.00000E+00 #27
DEFINE OEPC2 ,0.0,9.31323E-10 ;UNITS:N.D. DSP:N.D. MX:2.00000E+00 #28
DEFINE OEPC3 ,0.0,9.31323E-10 ;UNITS:N.D. DSP:N.D. MX:2.00000E+00 #29
DEFINE OEPC4 ,0.0,9.31323E-10 ;UNITS:N.D. DSP:N.D. MX:2.00000E+00 #30
DEFINE OEIX ,0.0,7.45058E-09 ;UNITS:RAD*SE DSP:RAD*SE MX:1.60000E+01 #31
DEFINE OEIY ,0.0,7.45058E-09 ;UNITS:RAD*SE DSP:RAD*SE MX:1.60000E+01 #32

*
* O B C R E P O R T : ACS#04 -ACS*
*

DEFINE OEIZ ,0.0,7.45058E-09 ;UNITS:RAD*SE DSP:RAD*SE MX:1.60000E+01 #33
DEFINE OEDIX ,0.0,2.38419E-07 ;UNITS:RSEC*2 DSP:RSEC*2 MX:5.12000E+02 #34
DEFINE OEDIY ,0.0,2.38419E-07 ;UNITS:RSEC*2 DSP:RSEC*2 MX:5.12000E+02 #35
DEFINE OEDIZ ,0.0,2.38419E-07 ;UNITS:RSEC*2 DSP:RSEC*2 MX:5.12000E+02 #36
DEFINE OTWX ,0.0,9.31323E-10 ;UNITS:N.D. DSP:N.D. MX:2.00000E+00 #37
DEFINE OTWY ,0.0,9.31323E-10 ;UNITS:N.D. DSP:N.D. MX:2.00000E+00 #38
DEFINE OTWZ ,0.0,9.31323E-10 ;UNITS:N.D. DSP:N.D. MX:2.00000E+00 #39
DEFINE OMEX ,0.0,1.66753E-09 ;UNITS:RAD/SE DSP:DEG/SE MX:3.58099E+00 #40

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DEFINE OWEY      ,0.0,1.66753E-09 ;UNITS:RAD/SE DSP:DEG/SE MX:3.58099E+00 #41
DEFINE OWEZ      ,0.0,1.66753E-09 ;UNITS:RAD/SE DSP:DEG/SE MX:3.58099E+00 #42
DEFINE OTTX      ,0.0,5.33609E-08 ;UNITS:RADIAN DSP:DEGREE MX:1.14592E+02 #43
DEFINE OTTY      ,0.0,5.33609E-08 ;UNITS:RADIAN DSP:DEGREE MX:1.14592E+02 #44
DEFINE OTTZ      ,0.0,5.33609E-08 ;UNITS:RADIAN DSP:DEGREE MX:1.14592E+02 #45
DEFINE OBIASY     ,0.0,1.66753E-09 ;UNITS:RADIAN DSP:DEGREE MX:3.58099E+00 #46
DEFINE OBIASZ     ,0.0,1.66753E-09 ;UNITS:RADIAN DSP:DEGREE MX:3.58099E+00 #47

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*
* O B C   R E P O R T : ACS%05  -ACS
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DEFINE OEX1C      ,0.0,5.33609E-08 ;UNITS:RADIAN DSP:DEGREE MX:1.14592E+02 #48
DEFINE OEY1C      ,0.0,5.33609E-08 ;UNITS:RADIAN DSP:DEGREE MX:1.14592E+02 #49
DEFINE OEX2C      ,0.0,5.33609E-08 ;UNITS:RADIAN DSP:DEGREE MX:1.14592E+02 #50
DEFINE OEY2C      ,0.0,5.33609E-08 ;UNITS:RADIAN DSP:DEGREE MX:1.14592E+02 #51
DEFINE OEX1F      ,0.0,3.33505E-09 ;UNITS:RADIAN DSP:DEGREE MX:7.16197E+00 #52
DEFINE OEY1F      ,0.0,3.33505E-09 ;UNITS:RADIAN DSP:DEGREE MX:7.16197E+00 #53
DEFINE OEX2F      ,0.0,3.33505E-09 ;UNITS:RADIAN DSP:DEGREE MX:7.16197E+00 #54
DEFINE OEY2F      ,0.0,3.33505E-09 ;UNITS:RADIAN DSP:DEGREE MX:7.16197E+00 #55
DEFINE ODELTNA     ,0.0,4.16882E-10 ;UNITS:R/S*2  DSP:DEG/S*2 MX:8.95247E-01 #56
DEFINE ODELTNE     ,0.0,4.16882E-10 ;UNITS:R/S*2  DSP:DEG/S*2 MX:8.95247E-01 #57
DEFINE OXPC        ,0.0,4.65661E-10 ;UNITS:N.D.   DSP:N.D.   MX:1.00000E+00 #58
DEFINE OYPC        ,0.0,4.65661E-10 ;UNITS:N.D.   DSP:N.D.   MX:1.00000E+00 #59
DEFINE OTWS        ,0.0,9.31323E-10 ;UNITS:N.D.   DSP:N.D.   MX:2.00000E+00 #60

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*
* O B C   R E P O R T : ACS%06  -ACS
*

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DEFINE OSYSMOX     ,0.0,1.19209E-07 ;UNITS:NMSEC  DSP:NMSEC  MX:2.56000E+02 #61
DEFINE OSYSPL      ,0.0,1.19209E-07 ;UNITS:NMSEC  DSP:NMSEC  MX:2.56000E+02 #62
DEFINE OSYSMOZ     ,0.0,1.19209E-07 ;UNITS:NMSEC  DSP:NMSEC  MX:2.56000E+02 #63
DEFINE ONOMSI      ,0.0,4.88281E-04 ;UNITS:MSEC   DSP:MSEC   MX:1.04858E+06 #64
DEFINE OELX1L      ,0.0,7.45058E-09 ;UNITS:NMSEC  DSP:NMSEC  MX:1.60000E+01 #65
DEFINE OTWXC       ,0.0,9.31323E-10 ;UNITS:NMSEC  DSP:NMSEC  MX:2.00000E+00 #66
DEFINE OELY1L      ,0.0,7.45058E-09 ;UNITS:NMSEC  DSP:NMSEC  MX:1.60000E+01 #67
DEFINE OTWYC       ,0.0,9.31323E-10 ;UNITS:NMSEC  DSP:NMSEC  MX:2.00000E+00 #68
DEFINE OELZ1L      ,0.0,7.45058E-09 ;UNITS:NMSEC  DSP:NMSEC  MX:1.60000E+01 #69
DEFINE OTWZC       ,0.0,9.31323E-10 ;UNITS:NMSEC  DSP:NMSEC  MX:2.00000E+00 #70

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*
* O B C   R E P O R T : ACS%07  -ACS*
*

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DEFINE OP1         ,0.0,1.86265E-09 ;UNITS:N.D.   DSP:N.D.   MX:4.00000E+00 #71
DEFINE OP2         ,0.0,1.86265E-09 ;UNITS:N.D.   DSP:N.D.   MX:4.00000E+00 #72
DEFINE OP3         ,0.0,1.86265E-09 ;UNITS:N.D.   DSP:N.D.   MX:4.00000E+00 #73
DEFINE OIWC        ,0.0,8.33763E-10 ;UNITS:RAD/SE DSP:DEG/SE MX:1.79049E+00 #74
DEFINE OWYC        ,0.0,8.33763E-10 ;UNITS:RAD/SE DSP:DEG/SE MX:1.79049E+00 #75
DEFINE OWZC        ,0.0,8.33763E-10 ;UNITS:RAD/SE DSP:DEG/SE MX:1.79049E+00 #76
DEFINE OPX         ,0.0,1.19209E-07 ;UNITS:NMSEC  DSP:NMSEC  MX:2.56000E+02 #77

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DEFINE OPY      ,0.0,1.19209E-07 ;UNITS:NMSEC DSP:NMSEC MX:2.56000E+02 #78
DEFINE OPZ      ,0.0,1.19209E-07 ;UNITS:NMSEC DSP:NMSEC MX:2.56000E+02 #79
DEFINE ONOMS2    ,0.0,4.88281E-04 ;UNITS:MSEC DSP:MSEC MX:1.04858E+06 #80
DEFINE OTACS     ,0.0,6.10352E-05 ;UNITS:N.A. DSP:N.A. MX:1.31072E+05 #81
DEFINE OWGXD1    ,0.0,6.10352E-05 ;UNITS:COUNTS DSP:COUNTS MX:1.31072E+05 #82
DEFINE OWGXD2    ,0.0,6.10352E-05 ;UNITS:COUNTS DSP:COUNTS MX:1.31072E+05 #83
DEFINE OWGYD1    ,0.0,6.10352E-05 ;UNITS:COUNTS DSP:COUNTS MX:1.31072E+05 #84
DEFINE OWGYD2    ,0.0,6.10352E-05 ;UNITS:COUNTS DSP:COUNTS MX:1.31072E+05 #85
DEFINE OWGZD1    ,0.0,6.10352E-05 ;UNITS:COUNTS DSP:COUNTS MX:1.31072E+05 #86
DEFINE OWGZD2    ,0.0,6.10352E-05 ;UNITS:COUNTS DSP:COUNTS MX:1.31072E+05 #87

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;*****
;
;*   O B C   R E P O R T : ACS%08  -ACS*
;*
;*****

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```

DEFINE OTIMUNLX ,0.0,5.96046E-08 ;UNITS:SECOND DSP:SECOND MX:1.28000E+02 #88
DEFINE OTIMUNLY ,0.0,5.96046E-08 ;UNITS:SECOND DSP:SECOND MX:1.28000E+02 #89
DEFINE OTIMUNLZ ,0.0,5.96046E-08 ;UNITS:SECOND DSP:SECOND MX:1.28000E+02 #90

```

```

;*****
;
;*   O B C   R E P O R T : ACS%09  -ACS*
;*
;*****

```

```

DEFINE OELX     ,0.0,1.86265E-09 ;UNITS:N.D. DSP:N.D. MX:4.00000E+00 #91
DEFINE OELY     ,0.0,1.86265E-09 ;UNITS:N.D. DSP:N.D. MX:4.00000E+00 #92
DEFINE OELZ     ,0.0,1.86265E-09 ;UNITS:N.D. DSP:N.D. MX:4.00000E+00 #93
DEFINE ONOMS3    ,0.0,4.88281E-04 ;UNITS:MSEC DSP:MSEC MX:1.04858E+06 #94

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```

;*****
;
;*   O B C   R E P O R T : ACS%10  -ACS*
;*
;*****

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```

DEFINE OTHETBX  ,0.0,1.46560E-09 ;UNITS:RAD/CY DSP:ARCS/CY MX:3.14735E+00 #95
DEFINE OTHETBY  ,0.0,1.46560E-09 ;UNITS:RAD/CY DSP:ARCS/CY MX:3.14735E+00 #96
DEFINE OTHETBZ  ,0.0,1.46560E-09 ;UNITS:RAD/CY DSP:ARCS/CY MX:3.14735E+00 #97
DEFINE OHWX     ,0.0,1.49012E-08 ;UNITS:NMSEC DSP:NMSEC MX:3.20000E+01 #98
DEFINE OHWY     ,0.0,1.49012E-08 ;UNITS:NMSEC DSP:NMSEC MX:3.20000E+01 #99
DEFINE OHWZ     ,0.0,1.49012E-08 ;UNITS:NMSEC DSP:NMSEC MX:3.20000E+01 #100
DEFINE OHWS     ,0.0,1.49012E-08 ;UNITS:NMSEC DSP:NMSEC MX:3.20000E+01 #101
DEFINE OMX      ,0.0,3.03388E-05 ;UNITS:CNTSX DSP:POLE.CM MX:6.51520E+04 #102
DEFINE OMY      ,0.0,3.03388E-05 ;UNITS:CNTSY DSP:POLE.CM MX:6.51520E+04 #103
DEFINE OMZ      ,0.0,3.14116E-05 ;UNITS:CNTSZ DSP:POLE.CM MX:6.74560E+04 #104
DEFINE OBEX     ,0.0,9.31323E-10 ;UNITS:GAUSS DSP:GAUSS MX:2.00000E+00 #105
DEFINE OBEY     ,0.0,9.31323E-10 ;UNITS:GAUSS DSP:GAUSS MX:2.00000E+00 #106
DEFINE OBEZ     ,0.0,9.31323E-10 ;UNITS:GAUSS DSP:GAUSS MX:2.00000E+00 #107
DEFINE ODHUNLDX ,0.0,1.19209E-07 ;UNITS:NMSEC DSP:NMSEC MX:2.56000E+02 #108
DEFINE ODHUNLDY ,0.0,1.19209E-07 ;UNITS:NMSEC DSP:NMSEC MX:2.56000E+02 #109
DEFINE ODHUNLDZ ,0.0,1.19209E-07 ;UNITS:NMSEC DSP:NMSEC MX:2.56000E+02 #110
DEFINE OEXG     ,0.0,5.33609E-08 ;UNITS:RADIAN DSP:DEGREE MX:1.14592E+02 #111
DEFINE OEYG     ,0.0,5.33609E-08 ;UNITS:RADIAN DSP:DEGREE MX:1.14592E+02 #112
DEFINE OEZG     ,0.0,5.33609E-08 ;UNITS:RADIAN DSP:DEGREE MX:1.14592E+02 #113

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DEFINE OEXM ,0.0,5.33609E-08 ;UNITS:RADIAN DSP:DEGREE MX:1.14592E+02 #114
DEFINE OEYM ,0.0,5.33609E-08 ;UNITS:RADIAN DSP:DEGREE MX:1.14592E+02 #115

;

* O B C R E P O R T : ACS%11 -ACS*

;

DEFINE OTF ,0.0,1.28000E-01 ;UNITS:MSEC DSP:SEC MX:2.74878E+08 #116
DEFINE OTDELTA ,0.0,1.28000E-01 ;UNITS:MSEC DSP:SEC MX:2.74878E+08 #117
DEFINE OSYSMOY ,0.0,1.19209E-07 ;UNITS:MMSEC DSP:MMSEC MX:2.56000E+02 #118
DEFINE ONOMS4 ,0.0,4.88281E-04 ;UNITS:MSEC DSP:MSEC MX:1.04858E+06 #119

;

* O B C R E P O R T : ACS%12 -ACS*

;

DEFINE OCNEX ,0.0,7.62939E-06 ;UNITS:COUNTS DSP:COUNTS MX:1.63840E+04 #120
DEFINE OCNEXY ,0.0,7.62939E-06 ;UNITS:COUNTS DSP:COUNTS MX:1.63840E+04 #121
DEFINE OCNEXZ ,0.0,7.62939E-06 ;UNITS:COUNTS DSP:COUNTS MX:1.63840E+04 #122
DEFINE OCNEXY1 ,0.0,7.62939E-06 ;UNITS:COUNTS DSP:COUNTS MX:1.63840E+04 #123
DEFINE OCNEXY1 ,0.0,7.62939E-06 ;UNITS:COUNTS DSP:COUNTS MX:1.63840E+04 #124
DEFINE OCNEXZ1 ,0.0,7.62939E-06 ;UNITS:COUNTS DSP:COUNTS MX:1.63840E+04 #125
DEFINE OCNEXX2 ,0.0,7.62939E-06 ;UNITS:COUNTS DSP:COUNTS MX:1.63840E+04 #126
DEFINE OCNEXY2 ,0.0,7.62939E-06 ;UNITS:COUNTS DSP:COUNTS MX:1.63840E+04 #127
DEFINE OCNEXZ2 ,0.0,7.62939E-06 ;UNITS:COUNTS DSP:COUNTS MX:1.63840E+04 #128
DEFINE OCNEXX3 ,0.0,7.62939E-06 ;UNITS:COUNTS DSP:COUNTS MX:1.63840E+04 #129
DEFINE OCNEXY3 ,0.0,7.62939E-06 ;UNITS:COUNTS DSP:COUNTS MX:1.63840E+04 #130
DEFINE OCNEXZ3 ,0.0,7.62939E-06 ;UNITS:COUNTS DSP:COUNTS MX:1.63840E+04 #131

;

* O B C R E P O R T : EPH%01 -EPHEM*

;

DEFINE OEOGBRF1 ,0.0,3.90625E-03 ;UNITS:METERS DSP:METERS MX:8.38861E+06 #132
DEFINE OEOGBRF2 ,0.0,3.90625E-03 ;UNITS:METERS DSP:METERS MX:8.38861E+06 #133
DEFINE OEOGBRF3 ,0.0,3.90625E-03 ;UNITS:METERS DSP:METERS MX:8.38861E+06 #134
DEFINE OEOGBVF1 ,0.0,3.72529E-09 ;UNITS:KM/SEC DSP:KM/SEC MX:8.00000E+00 #135
DEFINE OEOGBVF2 ,0.0,3.72529E-09 ;UNITS:KM/SEC DSP:KM/SEC MX:8.00000E+00 #136
DEFINE OEOGBVF3 ,0.0,3.72529E-09 ;UNITS:KM/SEC DSP:KM/SEC MX:8.00000E+00 #137

;

* O B C R E P O R T : EPH%02 -EPHEM*

;

DEFINE OEOGBRG1 ,0.0,3.90625E-03 ;UNITS:METERS DSP:METERS MX:8.38861E+06 #138
DEFINE OEOGBRG2 ,0.0,3.90625E-03 ;UNITS:METERS DSP:METERS MX:8.38861E+06 #139
DEFINE OEOGBRG3 ,0.0,3.90625E-03 ;UNITS:METERS DSP:METERS MX:8.38861E+06 #140
DEFINE OEOGBVG1 ,0.0,3.72529E-09 ;UNITS:KM/SEC DSP:KM/SEC MX:8.00000E+00 #141
DEFINE OEOGBVG2 ,0.0,3.72529E-09 ;UNITS:KM/SEC DSP:KM/SEC MX:8.00000E+00 #142
DEFINE OEOGBVG3 ,0.0,3.72529E-09 ;UNITS:KM/SEC DSP:KM/SEC MX:8.00000E+00 #143

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*****
**
*   O B C   R E P O R T : EPH%03  -EPHEM*
**
*****
DEFINE OEOGVCSE ,0.0,6.10352E-05 ;UNITS:N.D.   DSP:N.D.   MX:1.31072E+05 #144
DEFINE OEOGVSHF ,0.0,6.10352E-05 ;UNITS:N.D.   DSP:N.D.   MX:1.31072E+05 #145
DEFINE OEOGVARE ,0.0,6.10352E-05 ;UNITS:N.D.   DSP:N.D.   MX:1.31072E+05 #146
DEFINE OEOGVGTE ,0.0,6.10352E-05 ;UNITS:N.D.   DSP:N.D.   MX:1.31072E+05 #147
DEFINE OEOGVF7D ,0.0,6.10352E-05 ;UNITS:N.D.   DSP:N.D.   MX:1.31072E+05 #148
DEFINE OEOGVNFR ,0.0,6.10352E-05 ;UNITS:N.D.   DSP:N.D.   MX:1.31072E+05 #149
DEFINE OEOGVLOS ,0.0,6.10352E-05 ;UNITS:N.D.   DSP:N.D.   MX:1.31072E+05 #150
;
*****
**
*   O B C   R E P O R T : EPH%04  -EPHEM*
**
*****
DEFINE OEOGVFAL ,0.0,6.10352E-05 ;UNITS:N.D.   DSP:N.D.   MX:1.31072E+05 #151
DEFINE OEOGVTAL ,0.0,6.10352E-05 ;UNITS:N.D.   DSP:N.D.   MX:1.31072E+05 #152
DEFINE OEOGWPU  ,0.0,1.86265E-09 ;UNITS:N.D.   DSP:N.D.   MX:4.00000E+00 #153
DEFINE OEOGWPG  ,0.0,1.86265E-09 ;UNITS:N.D.   DSP:N.D.   MX:4.00000E+00 #154
DEFINE OEOGWPT  ,0.0,1.86265E-09 ;UNITS:N.D.   DSP:N.D.   MX:4.00000E+00 #155
;
*****
**
*   O B C   R E P O R T : EPH%05  -EPHEM*
**
*****
DEFINE OEOGBPT1 ,0.0,3.12500E-02 ;UNITS:METERS DSP:METERS MX:6.71089E+07 #156
DEFINE OEOGBPT2 ,0.0,3.12500E-02 ;UNITS:METERS DSP:METERS MX:6.71089E+07 #157
DEFINE OEOGBPT3 ,0.0,3.12500E-02 ;UNITS:METERS DSP:METERS MX:6.71089E+07 #158
DEFINE OWOGBPT1 ,0.0,3.12500E-02 ;UNITS:METERS DSP:METERS MX:6.71089E+07 #159
DEFINE OWOGBPT2 ,0.0,3.12500E-02 ;UNITS:METERS DSP:METERS MX:6.71089E+07 #160
DEFINE OWOGBPT3 ,0.0,3.12500E-02 ;UNITS:METERS DSP:METERS MX:6.71089E+07 #161
;
*****
**
*   O B C   R E P O R T : EPH%06  -EPHEM*
**
*****
DEFINE OEOGWTE3 ,0.0,1.28000E+02 ;UNITS:MSEC   DSP:MSEC   MX:2.74878E+11 #162
DEFINE OEOGWT3  ,0.0,1.28000E+02 ;UNITS:MSEC   DSP:MSEC   MX:2.74878E+11 #163
DEFINE OEOGWTE  ,0.0,1.28000E+02 ;UNITS:MSEC   DSP:MSEC   MX:2.74878E+11 #164
DEFINE OEOGTTW  ,0.0,1.28000E+02 ;UNITS:MSEC   DSP:MSEC   MX:2.74878E+11 #165
;
*****
**
*   O B C   R E P O R T : EPH%07  -EPHEM*
**
*****
DEFINE OEOGWT1  ,0.0,1.28000E+02 ;UNITS:MSEC   DSP:MSEC   MX:2.74878E+11 #166
DEFINE OEOGWT2  ,0.0,1.28000E+02 ;UNITS:MSEC   DSP:MSEC   MX:2.74878E+11 #167
DEFINE OTDAT    ,0.0,1.28000E+02 ;UNITS:MSEC   DSP:MSEC   MX:2.74878E+11 #168
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* O B C R E P O R T : A N T % 0 1 - A P C M *

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DEFINE OEANA	,0.0,7.45058E-09	;UNITS:VOLTS	DSP:VOLTS	MX:1.60000E+01	#169
DEFINE OEANE	,0.0,7.45058E-09	;UNITS:VOLTS	DSP:VOLTS	MX:1.60000E+01	#170
DEFINE OESTS	,0.0,7.45058E-09	;UNITS:VOLTS	DSP:VOLTS	MX:1.60000E+01	#171
DEFINE OEABSC	,0.0,7.45058E-09	;UNITS:VOLTS	DSP:VOLTS	MX:1.60000E+01	#172
DEFINE OEESBC	,0.0,7.45058E-09	;UNITS:VOLTS	DSP:VOLTS	MX:1.60000E+01	#173
DEFINE OESSBC	,0.0,7.45058E-09	;UNITS:VOLTS	DSP:VOLTS	MX:1.60000E+01	#174
DEFINE OTHANA	,0.0,1.19209E-07	;UNITS:DEGREE	DSP:DEGREE	MX:2.56000E+02	#175
DEFINE OTHANE	,0.0,1.19209E-07	;UNITS:DEGREE	DSP:DEGREE	MX:2.56000E+02	#176
DEFINE OTHAZ	,0.0,1.19209E-07	;UNITS:DEGREE	DSP:DEGREE	MX:2.56000E+02	#177
DEFINE OTHL	,0.0,1.19209E-07	;UNITS:DEGREE	DSP:DEGREE	MX:2.56000E+02	#178
DEFINE OE2PANA	,0.0,2.13443E-07	;UNITS:RADIAN	DSP:DEGREE	MX:4.58366E+02	#179
DEFINE OE2PANE	,0.0,2.13443E-07	;UNITS:RADIAN	DSP:DEGREE	MX:4.58366E+02	#180
DEFINE ODASCAN	,0.0,1.19209E-07	;UNITS:DEGREE	DSP:DEGREE	MX:2.56000E+02	#181
DEFINE ODESCAN	,0.0,1.19209E-07	;UNITS:DEGREE	DSP:DEGREE	MX:2.56000E+02	#182
DEFINE OZENANG	,0.0,1.19209E-07	;UNITS:DEGREE	DSP:DEGREE	MX:2.56000E+02	#183
DEFINE ONCSLEW	,0.0,6.10352E-05	;UNITS:N.D.	DSP:N.D.	MX:1.31072E+05	#184

;

;

* O B C R E P O R T : A N T % 0 2 - A P C M *

;

DEFINE ONASTEP	,0.0,5.96046E-08	;UNITS:STEPS	DSP:STEPS	MX:1.28000E+02	#185
DEFINE ONESTEP	,0.0,5.96046E-08	;UNITS:STEPS	DSP:STEPS	MX:1.28000E+02	#186
DEFINE ONRACMD	,0.0,5.96046E-08	;UNITS:STEPS	DSP:STEPS	MX:1.28000E+02	#187
DEFINE ONRECMD	,0.0,5.96046E-08	;UNITS:STEPS	DSP:STEPS	MX:1.28000E+02	#188
DEFINE ONSTCMD	,0.0,5.96046E-08	;UNITS:STEPS	DSP:STEPS	MX:1.28000E+02	#189
DEFINE OFEANA	,0.0,7.45058E-09	;UNITS:VOLTS	DSP:VOLTS	MX:1.60000E+01	#190
DEFINE OFEANE	,0.0,7.45058E-09	;UNITS:VOLTS	DSP:VOLTS	MX:1.60000E+01	#191
DEFINE OFESTS	,0.0,7.45058E-09	;UNITS:VOLTS	DSP:VOLTS	MX:1.60000E+01	#192
DEFINE OGANA	,0.0,1.13687E-13	;UNITS:N.D.	DSP:N.D.	MX:2.44141E-04	#193
DEFINE OANTADV	,0.0,1.19209E-07	;UNITS:DEGREE	DSP:DEGREE	MX:2.56000E+02	#194

;

;

* O B C R E P O R T : A N T % 0 3 - A P C M *

;

DEFINE OEPAE1	,0.0,9.31323E-10	;UNITS:N.D.	DSP:N.D.	MX:2.00000E+00	#195
DEFINE OEPAE2	,0.0,9.31323E-10	;UNITS:N.D.	DSP:N.D.	MX:2.00000E+00	#196
DEFINE OEPAE3	,0.0,9.31323E-10	;UNITS:N.D.	DSP:N.D.	MX:2.00000E+00	#197
DEFINE OEPAE4	,0.0,9.31323E-10	;UNITS:N.D.	DSP:N.D.	MX:2.00000E+00	#198
DEFINE OTHACHMD	,0.0,1.19209E-07	;UNITS:DEGREE	DSP:DEGREE	MX:2.56000E+02	#199
DEFINE OTHCHMD	,0.0,1.19209E-07	;UNITS:DEGREE	DSP:DEGREE	MX:2.56000E+02	#200
DEFINE OBANA	,0.0,3.72529E-09	;UNITS:N.D.	DSP:N.D.	MX:8.00000E+00	#201
DEFINE OBANE	,0.0,3.72529E-09	;UNITS:N.D.	DSP:N.D.	MX:8.00000E+00	#202
DEFINE OYANA	,0.0,2.98023E-08	;UNITS:N.D.	DSP:N.D.	MX:6.40000E+01	#203
DEFINE OYANE	,0.0,2.98023E-08	;UNITS:N.D.	DSP:N.D.	MX:6.40000E+01	#204
DEFINE OOMEGA	,0.0,1.45519E-11	;UNITS:RADIAN	DSP:RADIAN	MX:3.12500E-02	#205

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; **
;
; *   O B C   R E P O R T : UFL%02  -UFLTR*
;
; **
;
; *****
DEFINE OPM115      ,0.0,2.27374E-13 ;UNITS:RAD**2 DSP:RAD**2 MX:4.38281E-04 #230
DEFINE OPM116      ,0.0,2.27374E-13 ;UNITS:RAD**2 DSP:RAD**2 MX:4.88281E-04 #231
DEFINE OPM119      ,0.0,2.27374E-13 ;UNITS:RAD**2 DSP:RAD**2 MX:4.88281E-04 #232
DEFINE OPM121      ,0.0,1.35525E-20 ;UNITS:(R/S)2 DSP:(R/S)2 MX:2.91038E-11 #233
DEFINE OPM122      ,0.0,1.35525E-20 ;UNITS:(R/S)2 DSP:(R/S)2 MX:2.91038E-11 #234
DEFINE OPM123      ,0.0,1.35525E-20 ;UNITS:(R/S)2 DSP:(R/S)2 MX:2.91038E-11 #235

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* O B C R E P O R T : UFL%03 -UFLTR*

DEFINE OPM225	,0.0,1.35525E-20	;UNITS:(R/S)2	DSP:(R/S)2	MX:2.91038E-11	#236
DEFINE OPM226	,0.0,1.35525E-20	;UNITS:(R/S)2	DSP:(R/S)2	MX:2.91038E-11	#237
DEFINE OPM229	,0.0,1.35525E-20	;UNITS:(R/S)2	DSP:(R/S)2	MX:2.91038E-11	#238
DEFINE OPM121	,0.0,6.93889E-18	;UNITS:R*2/SE	DSP:R*2/SE	MX:1.49012E-08	#239
DEFINE OPM122	,0.0,6.93889E-18	;UNITS:R*2/SE	DSP:R*2/SE	MX:1.49012E-08	#240
DEFINE OPM123	,0.0,6.93889E-18	;UNITS:R*2/SE	DSP:R*2/SE	MX:1.49012E-08	#241

* O B C R E P O R T : UFL%04 -UFLTR*

DEFINE OPM124	,0.0,6.93889E-18	;UNITS:R*2/SE	DSP:R*2/SE	MX:1.49012E-08	#242
DEFINE OPM125	,0.0,6.93889E-18	;UNITS:R*2/SE	DSP:R*2/SE	MX:1.49012E-08	#243
DEFINE OPM126	,0.0,6.93889E-18	;UNITS:R*2/SE	DSP:R*2/SE	MX:1.49012E-08	#244
DEFINE OPM127	,0.0,6.93889E-18	;UNITS:R*2/SE	DSP:R*2/SE	MX:1.49012E-08	#245
DEFINE OPM128	,0.0,6.93889E-18	;UNITS:R*2/SE	DSP:R*2/SE	MX:1.49012E-08	#246
DEFINE OPM129	,0.0,6.93889E-18	;UNITS:R*2/SE	DSP:R*2/SE	MX:1.49012E-08	#247

* O B C R E P O R T : UFL%06 -UFLTR*

DEFINE OXS	,0.0,5.82077E-11	;UNITS:N.D.	DSP:N.D.	MX:1.25000E-01	#248
DEFINE OYS	,0.0,5.82077E-11	;UNITS:N.D.	DSP:N.D.	MX:1.25000E-01	#249
DEFINE OSCP11	,0.0,5.96046E-08	;UNITS:N.D.	DSP:N.D.	MX:1.28000E+02	#250
DEFINE OSCP12	,0.0,5.96046E-08	;UNITS:N.D.	DSP:N.D.	MX:1.28000E+02	#251
DEFINE OSCP22	,0.0,5.96046E-08	;UNITS:N.D.	DSP:N.D.	MX:1.28000E+02	#252
DEFINE OSCKL	,0.0,5.96046E-08	;UNITS:N.D.	DSP:N.D.	MX:1.28000E+02	#253
DEFINE OSCKH	,0.0,5.96046E-08	;UNITS:N.D.	DSP:N.D.	MX:1.28000E+02	#254
DEFINE OSCKIL	,0.0,5.96046E-08	;UNITS:N.D.	DSP:N.D.	MX:1.28000E+02	#255
DEFINE OSCKIH	,0.0,5.96046E-08	;UNITS:N.D.	DSP:N.D.	MX:1.28000E+02	#256

* O B C R E P O R T : UFL%07 -UFLTR*

DEFINE OTP	,0.0,2.38419E-07	;UNITS:SECOND	DSP:SECOND	MX:5.12000E+02	#257
DEFINE OZ1	,0.0,5.82077E-11	;UNITS:N.D.	DSP:N.D.	MX:1.25000E-01	#258
DEFINE OZ2	,0.0,5.82077E-11	;UNITS:N.D.	DSP:N.D.	MX:1.25000E-01	#259
DEFINE OH11	,0.0,4.65661E-10	;UNITS:N.D.	DSP:N.D.	MX:1.00000E+00	#260
DEFINE OH12	,0.0,4.65661E-10	;UNITS:N.D.	DSP:N.D.	MX:1.00000E+00	#261
DEFINE OH13	,0.0,4.65661E-10	;UNITS:N.D.	DSP:N.D.	MX:1.00000E+00	#262
DEFINE OH21	,0.0,4.65661E-10	;UNITS:N.D.	DSP:N.D.	MX:1.00000E+00	#263
DEFINE OH22	,0.0,4.65661E-10	;UNITS:N.D.	DSP:N.D.	MX:1.00000E+00	#264
DEFINE OH23	,0.0,4.65661E-10	;UNITS:N.D.	DSP:N.D.	MX:1.00000E+00	#265
DEFINE OVS1	,0.0,3.00155E-06	;UNITS:RADIAN	DSP:ARCSEC	MX:6.44578E+03	#266
DEFINE OVS2	,0.0,3.00155E-06	;UNITS:RADIAN	DSP:ARCSEC	MX:6.44578E+03	#267
DEFINE CRS	,0.0,2.13443E-07	;UNITS:RADIAN	DSP:DEGREE	MX:4.58366E+02	#268

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*****
**
*   O B C   R E P O R T : UFL%08  -UFLTR*
**
*****
DEFINE OTHETAM ,0.0,3.33505E-09 ;UNITS:RADIAN DSP:DEGREE MX:7.16197E+00 #269
DEFINE OPHIM ,0.0,3.33505E-09 ;UNITS:RADIAN DSP:DEGREE MX:7.16197E+00 #270
DEFINE OXSC ,0.0,5.82077E-11 ;UNITS:N.D. DSP:N.D. MX:1.25000E-01 #271
DEFINE OZSC ,0.0,5.82077E-11 ;UNITS:N.D. DSP:N.D. MX:1.25000E-01 #272
DEFINE OXP ,0.0,4.65661E-10 ;UNITS:N.D. DSP:N.D. MX:1.00000E+00 #273
DEFINE OYP ,0.0,4.65661E-10 ;UNITS:N.D. DSP:N.D. MX:1.00000E+00 #274
DEFINE OXPE ,0.0,4.65661E-10 ;UNITS:N.D. DSP:N.D. MX:1.00000E+00 #275
DEFINE OYPE ,0.0,4.65661E-10 ;UNITS:N.D. DSP:N.D. MX:1.00000E+00 #276
DEFINE OLSX ,0.0,4.65661E-10 ;UNITS:N.D. DSP:N.D. MX:1.00000E+00 #277
DEFINE OLSY ,0.0,4.65661E-10 ;UNITS:N.D. DSP:N.D. MX:1.00000E+00 #278

```

```
*****
**
*   O B C   R E P O R T : UFL%09  -UFLTR*
**
*****
DEFINE OLSZ ,0.0,4.65661E-10 ;UNITS:N.D. DSP:N.D. MX:1.00000E+00 #279
DEFINE OSX ,0.0,3.33505E-09 ;UNITS:RADIAN DSP:DEGREE MX:7.16197E+00 #280
DEFINE OSY ,0.0,3.33505E-09 ;UNITS:RADIAN DSP:DEGREE MX:7.16197E+00 #281
DEFINE OIS ,0.0,4.00000E-02 ;UNITS:TMC DSP:VOLTS MX:8.58993E+07 #282
DEFINE OTS ,0.0,4.00000E-02 ;UNITS:TMC DSP:VOLTS MX:8.58993E+07 #283
DEFINE OUFDTREQ ,0.0,5.96046E-08 ;UNITS:N.D. DSP:N.D. MX:1.28000E+02 #284

```

```
*****
**
*   O B C   R E P O R T : UFL%10  -UFLTR*
**
*****
DEFINE OSCU ,0.0,6.10352E-05 ;UNITS:N.A. DSP:N.A. MX:1.31072E+05 #285
DEFINE OSCUI ,0.0,6.10352E-05 ;UNITS:N.A. DSP:N.A. MX:1.31072E+05 #286
DEFINE OTUS ,0.0,1.28000E+02 ;UNITS:MSEC DSP:MSEC MX:2.74878E+11 #287

```

```
*****
**
*   O B C   R E P O R T : UFL%11  -UFLTR*
**
*****
DEFINE OYSC ,0.0,5.82077E-11 ;UNITS:N.D. DSP:N.D. MX:1.25000E-01 #288
DEFINE OH ,0.0,9.53674E-07 ;UNITS:FHSTC DSP:DEGREE MX:2.04800E+03 #289
DEFINE OV ,0.0,9.53674E-07 ;UNITS:FHSTC DSP:DEGREE MX:2.04800E+03 #290

```

```
*****
**
*   O B C   R E P O R T : POT%01  -POTDAT*
**
*****
DEFINE OTSAI1 ,0.0,2.38419E-07 ;UNITS:DEGREE DSP:DEGREE MX:5.12000E+02 #291
DEFINE OTSAI2 ,0.0,2.38419E-07 ;UNITS:DEGREE DSP:DEGREE MX:5.12000E+02 #292
DEFINE OSADRATE ,0.0,9.31323E-10 ;UNITS:DEG/SE DSP:DEG/SE MX:2.00000E+00 #293
DEFINE OPOTDIF ,0.0,2.38419E-07 ;UNITS:DEGREE DSP:DEGREE MX:5.12000E+02 #294
DEFINE OTIME18 ,0.0,6.25000E-02 ;UNITS:MSEC DSP:MSEC MX:1.34218E+08 #295

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*****
*
*   O B C   R E P O R T : S D P % 0 1   - S O L A R D *
*
*****
DEFINE OSDSEPTM ,0.0,6.25000E-02 ;UNITS:MSEC  DSP:MSEC  MX:1.34218E+08 #296
DEFINE OSDTEMP ,0.0,6.25000E-02 ;UNITS:MSEC  DSP:MSEC  MX:1.34218E+08 #297

```

```

*****
*
*   O B C   R E P O R T : G M T % 0 1   - G M T C O R *
*
*****
DEFINE OTDPUCUR ,0.0,1.28000E+02 ;UNITS:MSEC  DSP:MSEC  MX:2.74878E+11 #298
DEFINE OTUPDATE ,0.0,1.28000E+02 ;UNITS:MSEC  DSP:MSEC  MX:2.74878E+11 #299

```

```

*****
*
*   O B C   R E P O R T : S E P % 0 1   - S E P H E M *
*
*****
DEFINE OTSOL ,0.0,1.28000E+02 ;UNITS:MSEC  DSP:MSEC  MX:2.74878E+11 #300
DEFINE OL ,0.0,2.32831E-10 ;UNITS:CIRCLE DSP:CIRCLE MX:5.00000E-01 #301
DEFINE OSIX ,0.0,4.65661E-10 ;UNITS:N.D.  DSP:N.D.  MX:1.00000E+00 #302
DEFINE OSIY ,0.0,4.65661E-10 ;UNITS:N.D.  DSP:N.D.  MX:1.00000E+00 #303
DEFINE OSIZ ,0.0,4.65661E-10 ;UNITS:N.D.  DSP:N.D.  MX:1.00000E+00 #304
DEFINE OVEX ,0.0,1.49012E-08 ;UNITS:KM/SEC DSP:KM/SEC MX:3.20000E+01 #305
DEFINE OVEY ,0.0,1.49012E-08 ;UNITS:KM/SEC DSP:KM/SEC MX:3.20000E+01 #306
DEFINE OVEZ ,0.0,1.49012E-08 ;UNITS:KM/SEC DSP:KM/SEC MX:3.20000E+01 #307

```

```

*****
*
*   O B C   R E P O R T : A N T % 0 5   - A P C M *
*
*****
DEFINE OTAZSI ,0.0,4.76837E-07 ;UNITS:DEGREE DSP:DEGREE MX:1.02400E+03 #308
DEFINE OTELSI ,0.0,4.76837E-07 ;UNITS:DEGREE DSP:DEGREE MX:1.02400E+03 #309
DEFINE OTAZSF ,0.0,4.76837E-07 ;UNITS:DEGREE DSP:DEGREE MX:1.02400E+03 #310
DEFINE OTELSF ,0.0,4.76837E-07 ;UNITS:DEGREE DSP:DEGREE MX:1.02400E+03 #311
DEFINE OTAZSD ,0.0,4.76837E-07 ;UNITS:DEGREE DSP:DEGREE MX:1.02400E+03 #312
DEFINE OTELSD ,0.0,4.76837E-07 ;UNITS:DEGREE DSP:DEGREE MX:1.02400E+03 #313
DEFINE OFDCAPFT ,0.0,1.02400E+00 ;UNITS:MSEC  DSP:SEC  MX:2.19902E+09 #314

```

```

*****
*
*   O B C   R E P O R T : S C R P R T   - S T C *
*
*****
DEFINE OATCNXT ,0.0,1.02400E+00 ;UNITS:MSEC  DSP:SEC  MX:2.19902E+09 #315
ENDCNV
END

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APPENDIX A.7

PROPULSION MODULE (PM) TELEMETRY CALIBRATION DATA

The calibration curve coefficients for each telemetry point are controlled in the data base. They are listed along with the unit section number where the sensor is located. Tables showing the coefficients may be obtained from the data base administrator. The tables show telemetry volts (counts) vs. engineering units.

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PM CONV. DEF.

POINT	ZACSDIR	; ACS DIRECT CONTROL INPUTS ENA/DISA
COEFF	ZACSDIR	, 0,0.02
POINT	ZEABATC	; PME A/B ATT CONTROL ENA/DISA
COEFF	ZEABATC	, 0,0.02
POINT	ZEABTRS	; PME A/B TRANSLATION CONTROL ENA/DISA
COEFF	ZEABTRS	, 0,0.02
POINT	ZEANATC	; PME A NEG ATT CONT REM A/C ENA/DISA
COEFF	ZEANATC	, 0,0.02
POINT	ZEANGEN	; PME A NEG ATT CONT TORQ PULSE GEN
COEFF	ZEANGEN	, 0,0.02
POINT	ZEAPATC	; PME A POS ATT CONT REM A/C ENA/DISA
COEFF	ZEAPATC	, 0,0.02
POINT	ZEAPGEN	; PME A POS ATT CONT TORQ PULSE GEN
COEFF	ZEAPGEN	, 0,0.02
POINT	ZEAPULS	; PME A 40/100/280MS PULSE SELECT
COEFF	ZEAPULS	, 0,0.02
POINT	ZEARMTC	; PME A TR CONT REM A,C/B,D ENA/DISA
COEFF	ZEARMTC	, 0,0.02
POINT	ZEBNATC	; PME B NEG ATT CONT REM A/C ENA/DISA
COEFF	ZEBNATC	, 0,0.02
POINT	ZEBNGEN	; PME B NEG ATT CONT TORQ PULSE GEN
COEFF	ZEBNGEN	, 0,0.02
POINT	ZEBPATC	; PME B POS ATT CONT REM A/C ENA/DISA
COEFF	ZEBPATC	, 0,0.02
POINT	ZEBPGEN	; PME B POS ATT CONT TORQ PULSE GEN
COEFF	ZEBPGEN	, 0,0.02
POINT	ZEBPULS	; PME B 40/100/280 MS PULSE SELECT
COEFF	ZEBPULS	, 0,0.02
POINT	ZEBRMTC	; PME B TR CONT REM A,C/B,D ENA/DISA
COEFF	ZEBRMTC	, 0,0.02
POINT	ZFULPSI	; FUEL TANK PRESSURE
COEFF	ZFULPSI	, 0,2.00
POINT	ZHTRBUS	; PRI/REDUND HTR BUS ENA/DISA
COEFF	ZHTRBUS	, 0,0.02
POINT	ZLV123	; LATCH VALVES 1,2,3 OPEN/CLOSED
COEFF	ZLV123	, 0,0.02
POINT	ZLV456	; LATCH VALVES 4,5,6 OPEN/CLOSED
COEFF	ZLV456	, 0,0.02
POINT	ZLVDVRS	; PME A/B LATCH VALVE DRIVER ENA/DISA
COEFF	ZLVDVRS	, 0,0.02
POINT	ZRMAATC	; REM A ATT CONTROL THRUSTERS ON/OFF
COEFF	ZRMAATC	, 0,0.02
POINT	ZRMATC	; REM A/C TRANSL CONT THRUSTERS ON/OFF
COEFF	ZRMATC	, 0,0.02
POINT	ZRMBATC	; REM B ATT CONTROL THRUSTERS ON/OFF
COEFF	ZRMBATC	, 0,0.02
POINT	ZRMBDTC	; REM B/D TRANSL CONT THRUSTERS ON/OFF
COEFF	ZRMBDTC	, 0,0.02

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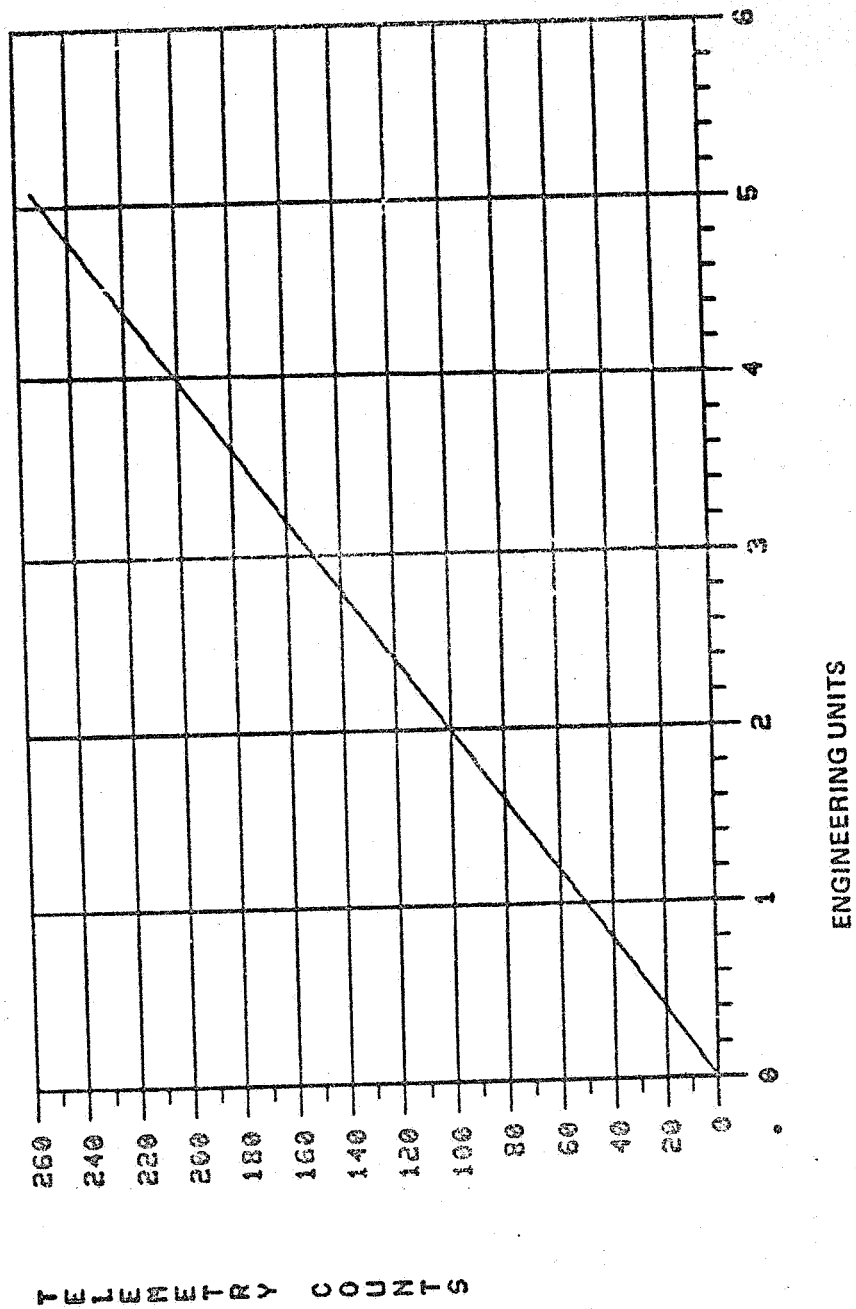
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POINT	ZRMCATC	; REM C ATT CONTROL THRUSTERS ON/OFF
COEFF	ZRMCATC	, 0,0.02
POINT	ZRMDATC	; REM D ATT CONTROL THRUSTERS ON/OFF
COEFF	ZRMDATC	, 0,0.02
POINT	ZTIAFUL	; PM-1A FUEL TEMPERATURE in deg. centigrade
COEFF	ZTIAFUL	, .1234E+3,-.2073E+1,.2266E-1,-.1515E-3,.5174E-6,-.7163E-9
POINT	ZTIALIN	; PM-1A LINE TEMPERATURE in deg. centigrade
COEFF	ZTIALIN	, .1234E+3,-.2073E+1,.2266E-1,-.1515E-3,.5174E-6,-.7163E-9
POINT	ZTIATNK	; PM-1A TANK TEMPERATURE in deg. centigrade
COEFF	ZTIATNK	, .1234E+3,-.2073E+1,.2266E-1,-.1515E-3,.5174E-6,-.7163E-9
POINT	ZTBMCTR	; BEAM TEMP CENTER (PME-A) in deg. centigrade
COEFF	ZTBMCTR	, 115.089,-1.5821,1.19745E-2,-4.93429E-5,7.1279E-8
POINT	ZTBMAMB	; BEAM TEMP REM A (PME-A) in deg. centigrade
COEFF	ZTBMAMB	, 115.089,-1.5821,1.19745E-2,-4.93429E-5,7.1279E-8
POINT	ZTLV1LV4	; L/V 1 TEMP (PME-A) in deg. centigrade
COEFF	ZTLV1LV4	, 115.089,-1.5821,1.19745E-2,-4.93429E-5,7.1279E-8
POINT	ZTLV2LV5	; L/V 2 TEMP (PME-A) in deg. centigrade
COEFF	ZTLV2LV5	, 115.089,-1.5821,1.19745E-2,-4.93429E-5,7.1279E-8
POINT	ZTLV3LV6	; L/V 3 TEMP (PME-A) in deg. centigrade
COEFF	ZTLV3LV6	, 115.089,-1.5821,1.19745E-2,-4.93429E-5,7.1279E-8
POINT	ZTRMA1A3	; REM A TEMP 1 (PME-A) in deg. centigrade
COEFF	ZTRMA1A3	, 142.519,-1.4127,7.2784E-3,-1.9168E-5,7.4889E-9
POINT	ZTRMA2A4	; REM A TEMP 2 (PME-A) in deg. centigrade
COEFF	ZTRMA2A4	, 142.519,-1.4127,7.2784E-3,-1.9168E-5,7.4889E-9
POINT	ZTRMB1B3	; REM B TEMP 1 (PME-A) in deg. centigrade
COEFF	ZTRMB1B3	, 142.519,-1.4127,7.2784E-3,-1.9168E-5,7.4889E-9
POINT	ZTRMB2B4	; REM B TEMP 2 (PME-A) in deg. centigrade
COEFF	ZTRMB2B4	, 142.519,-1.4127,7.2784E-3,-1.9168E-5,7.4889E-9
POINT	ZTRMC1C3	; REM C TEMP 1 (PME-A) in deg. centigrade
COEFF	ZTRMC1C3	, 142.519,-1.4127,7.2784E-3,-1.9168E-5,7.4889E-9
POINT	ZTRMC2C4	; REM C TEMP 2 (PME-A) in deg. centigrade
COEFF	ZTRMC2C4	, 142.519,-1.4127,7.2784E-3,-1.9168E-5,7.4889E-9
POINT	ZTRMD1D3	; REM D TEMP 1 (PME-A) in deg. centigrade
COEFF	ZTRMD1D3	, 142.519,-1.4127,7.2784E-3,-1.9168E-5,7.4889E-9
POINT	ZTRMD2D4	; REM D TEMP 2 (PME-A) in deg. centigrade
COEFF	ZTRMD2D4	, 142.519,-1.4127,7.2784E-3,-1.9168E-5,7.48
POINT	ZTTANK1	; TANK 1 TEMP in deg. centigrade
COEFF	ZTTANK1	, 115.089,-1.5821,1.19745E-2,-4.93429E-5,7.1279E-8
POINT	ZTTANK2	; TANK 2 TEMP in deg. centigrade
COEFF	ZTTANK2	, 115.089,-1.5821,1.19745E-2,-4.93429E-5,7.1279E-8
POINT	ZTTANK3	; TANK 3 TEMP in deg. centigrade
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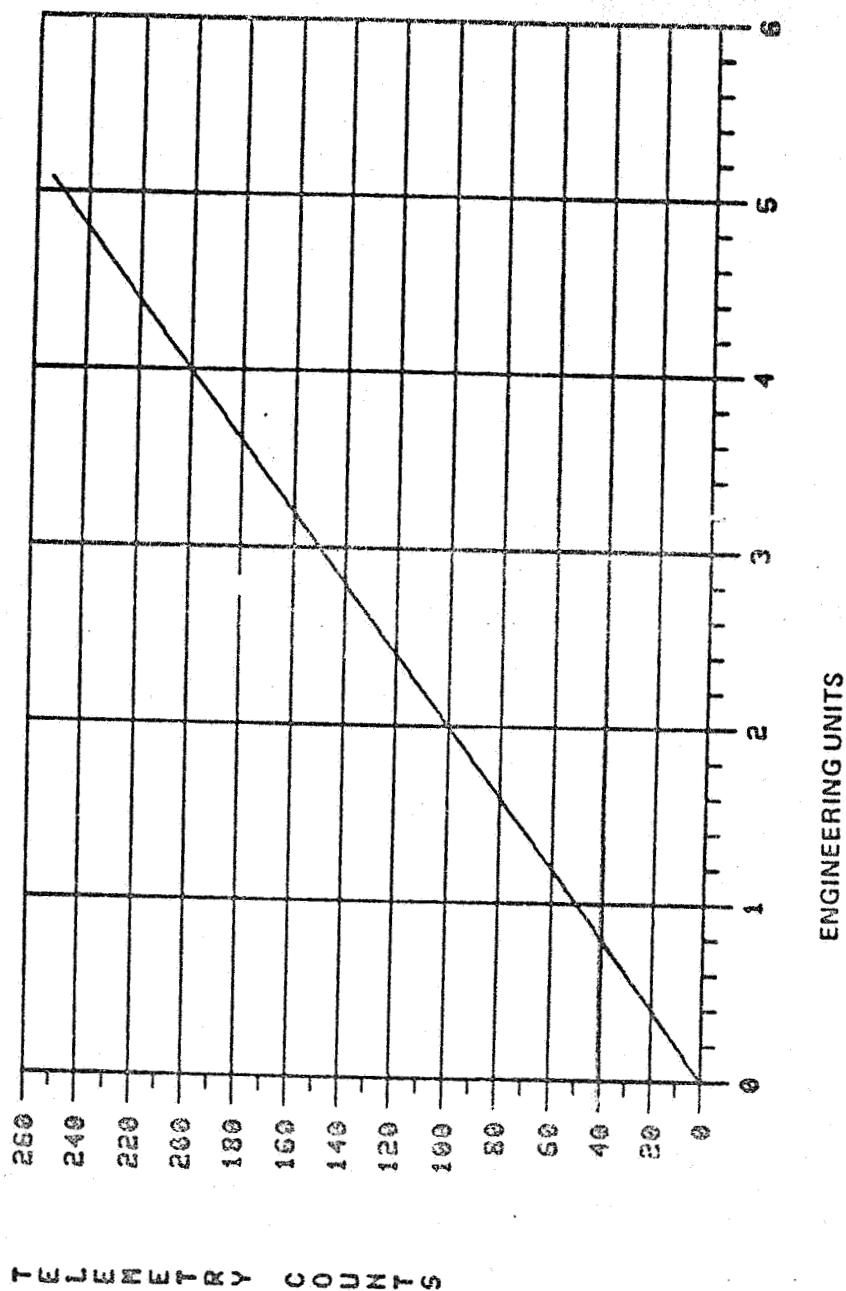
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COUNTS VS ENGINEERING UNITS FOR ZACSDIR



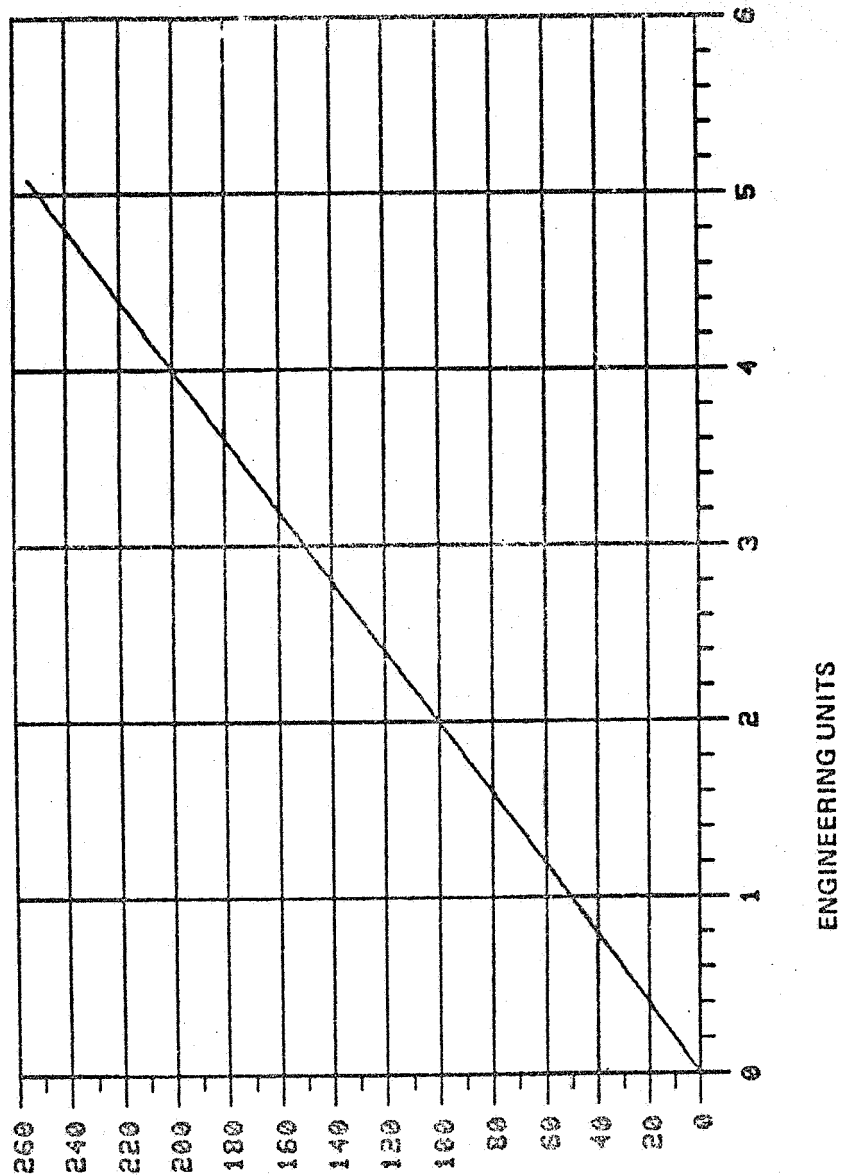
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COUNTS VS ENGINEERING UNITS FOR ZEABATC



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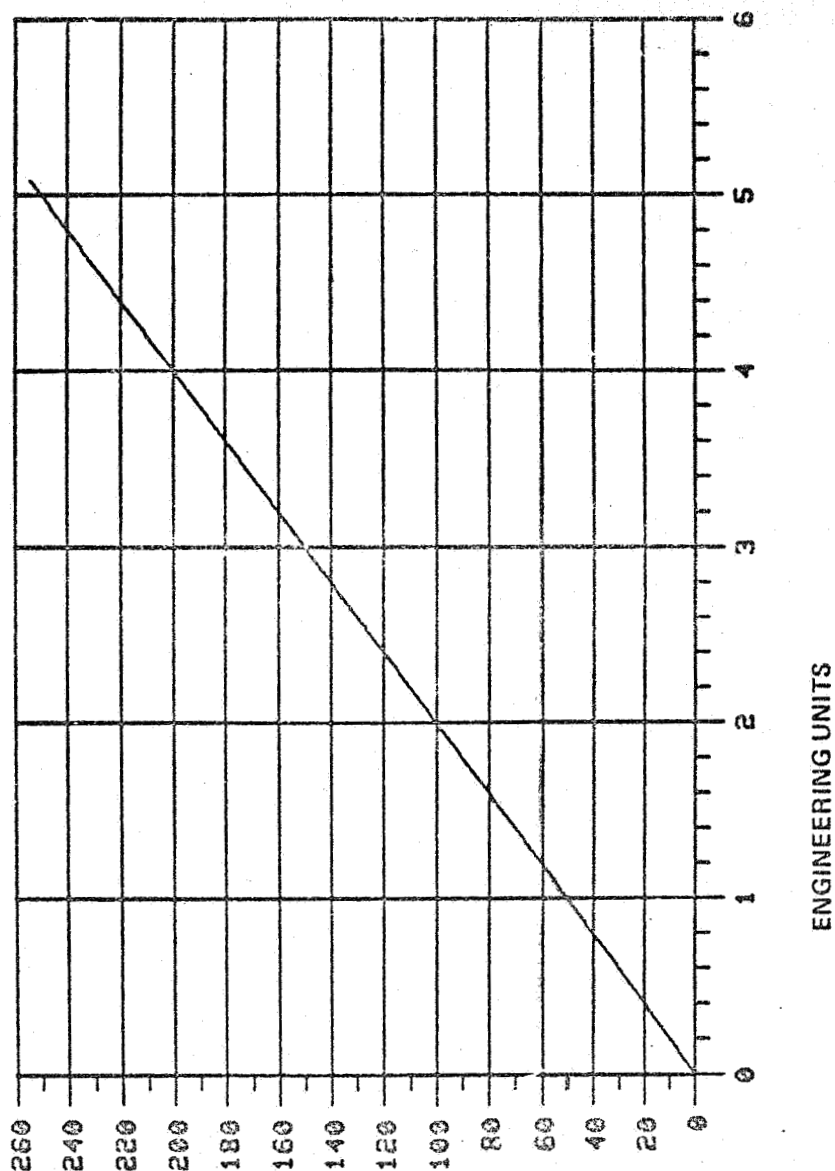
COUNTS VS ENGINEERING UNITS FOR ZEABTRS



TELEMETRY COUNTS

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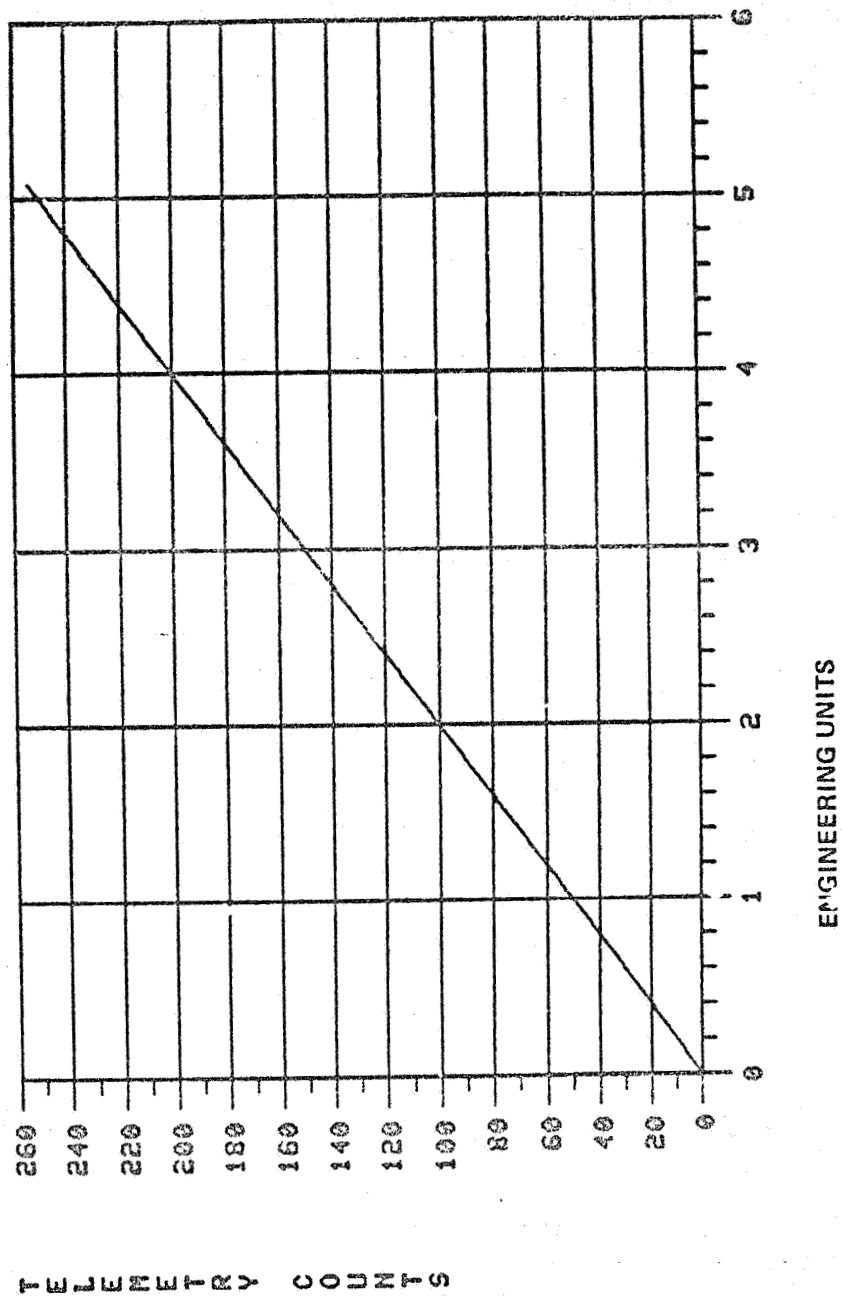
COUNTS VS ENGINEERING UNITS FOR ZEANATC



TELEMETRY COUNTS

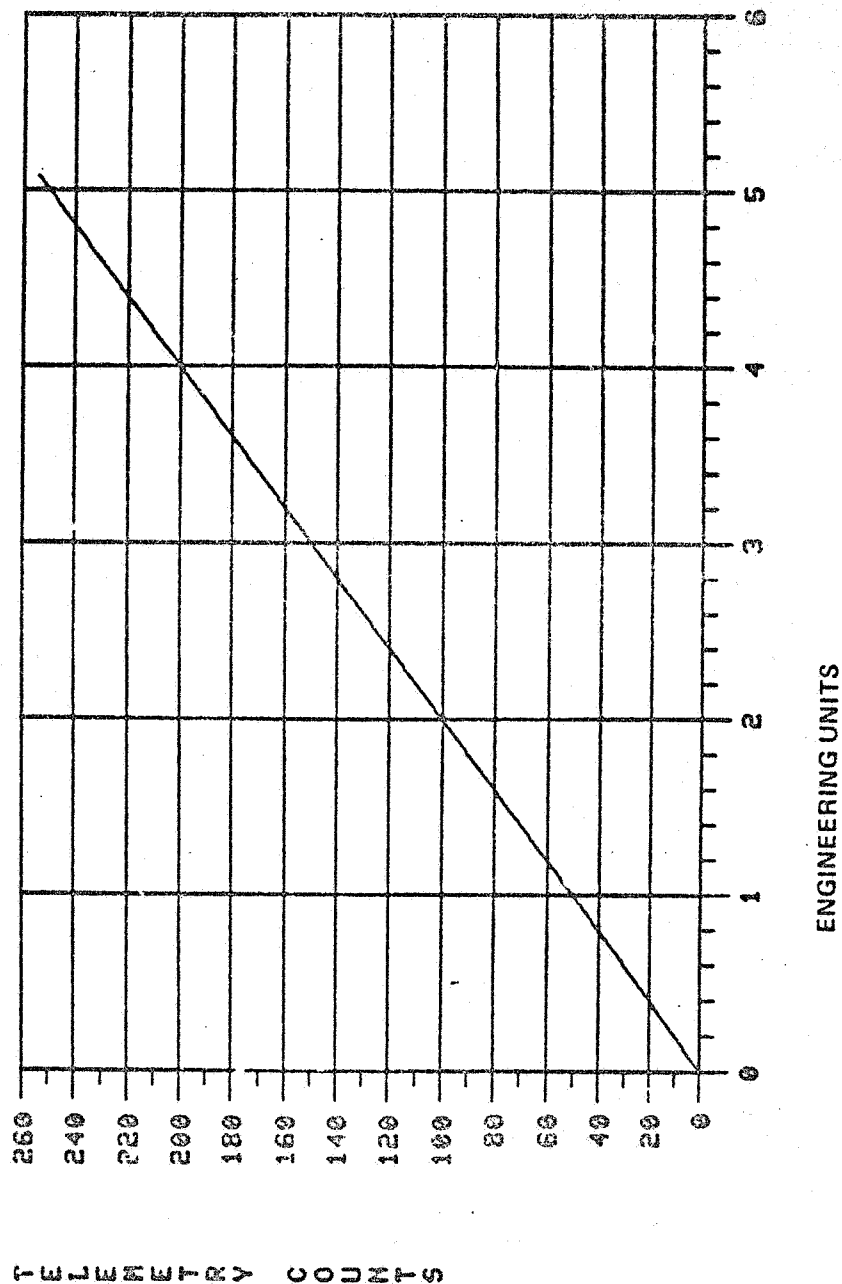
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COUNTS VS ENGINEERING UNITS FOR ZEANGEN



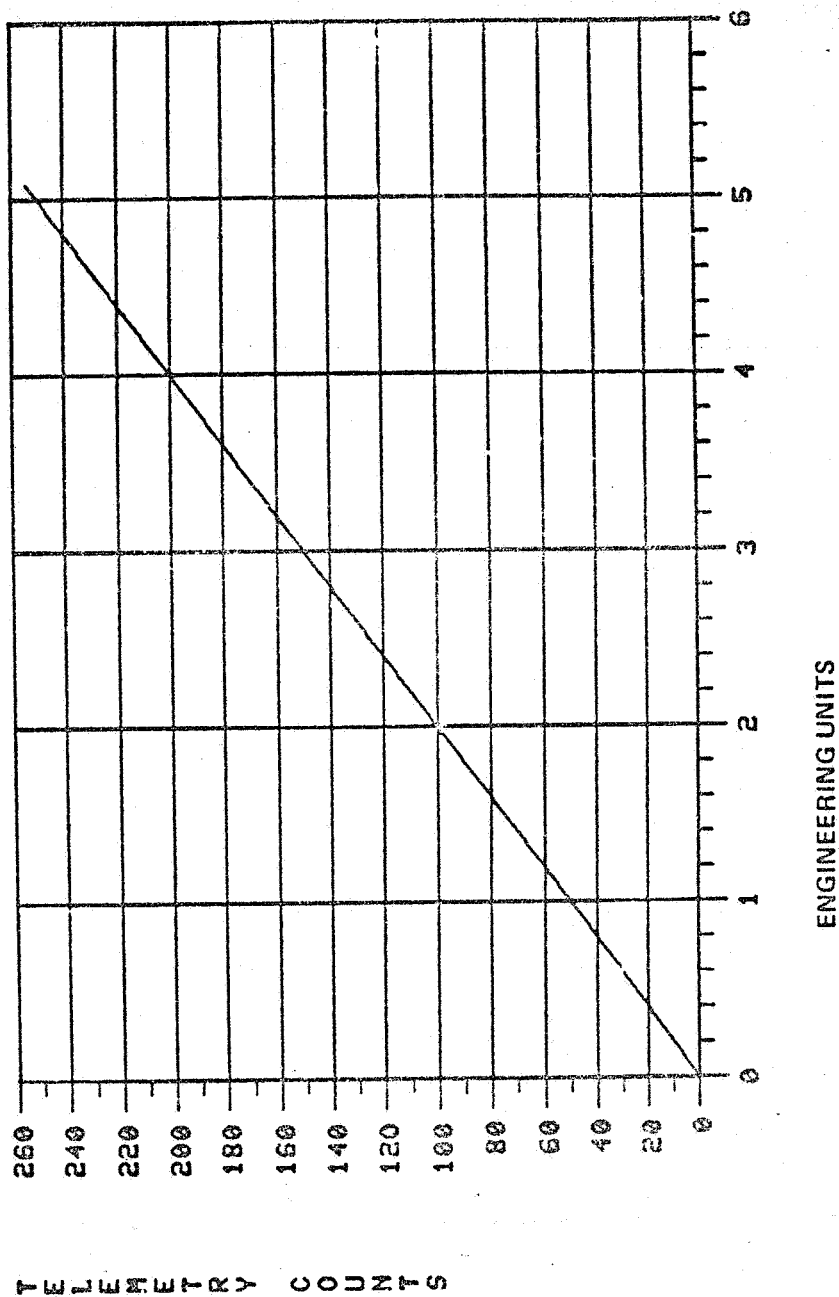
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COUNTS VS ENGINEERING UNITS FOR ZEAPATC



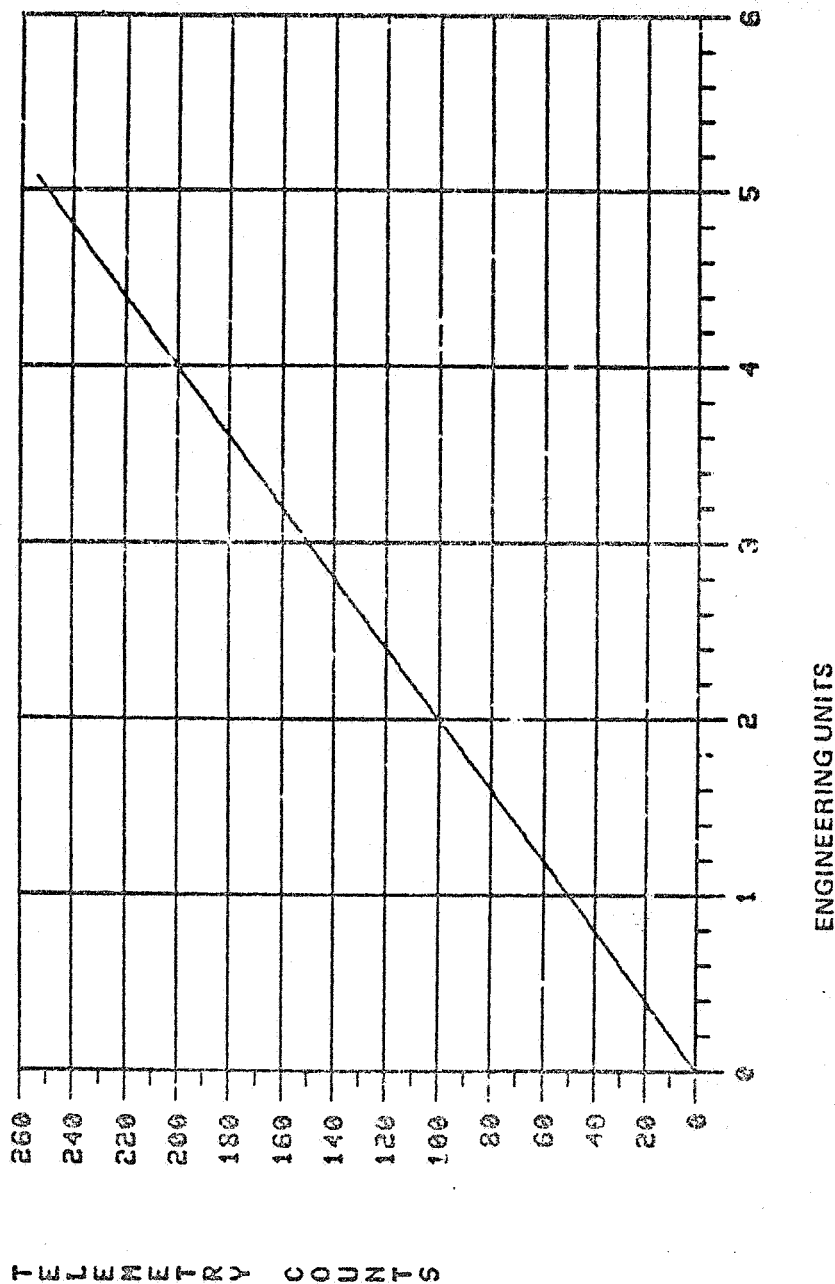
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COUNTS VS ENGINEERING UNITS FOR ZEAPGEN



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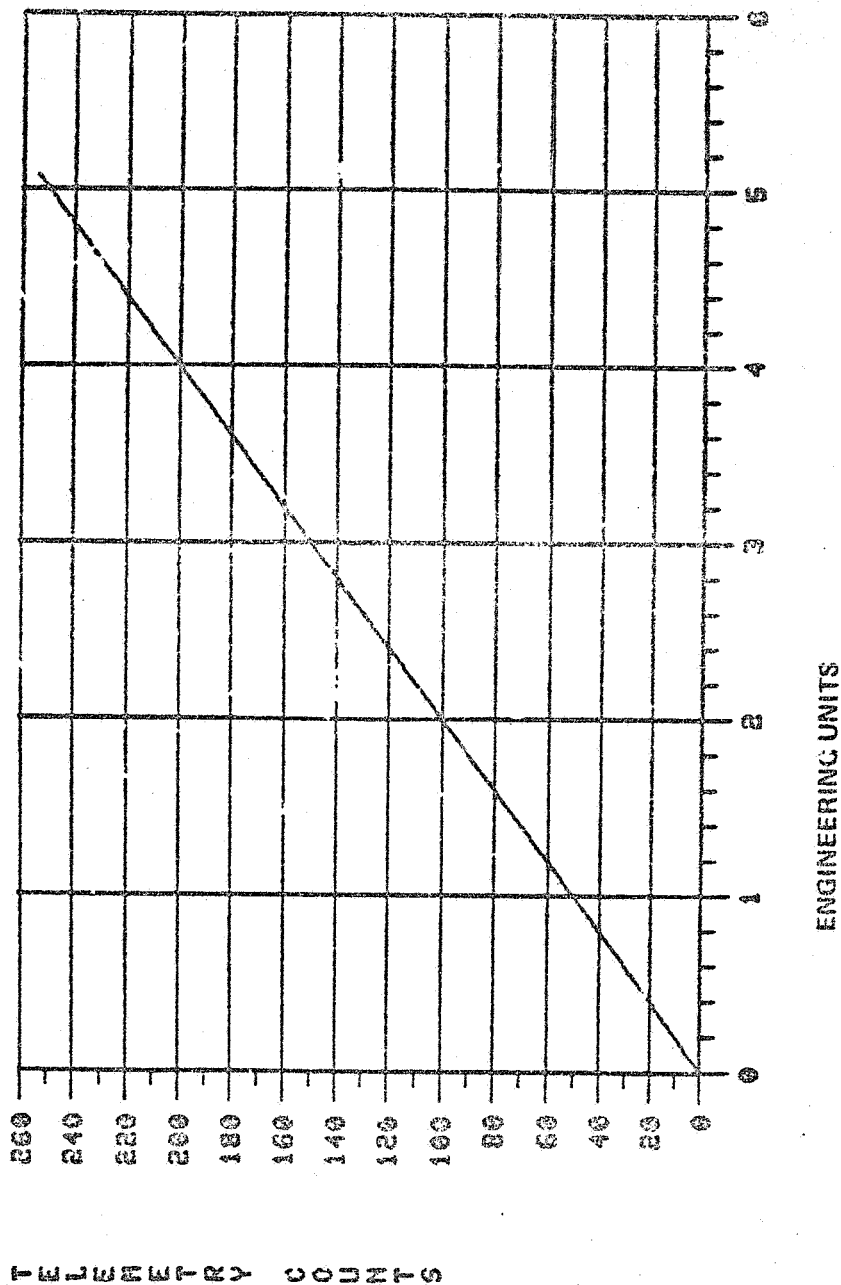
COUNTS VS ENGINEERING UNITS FOR ZEAPULS



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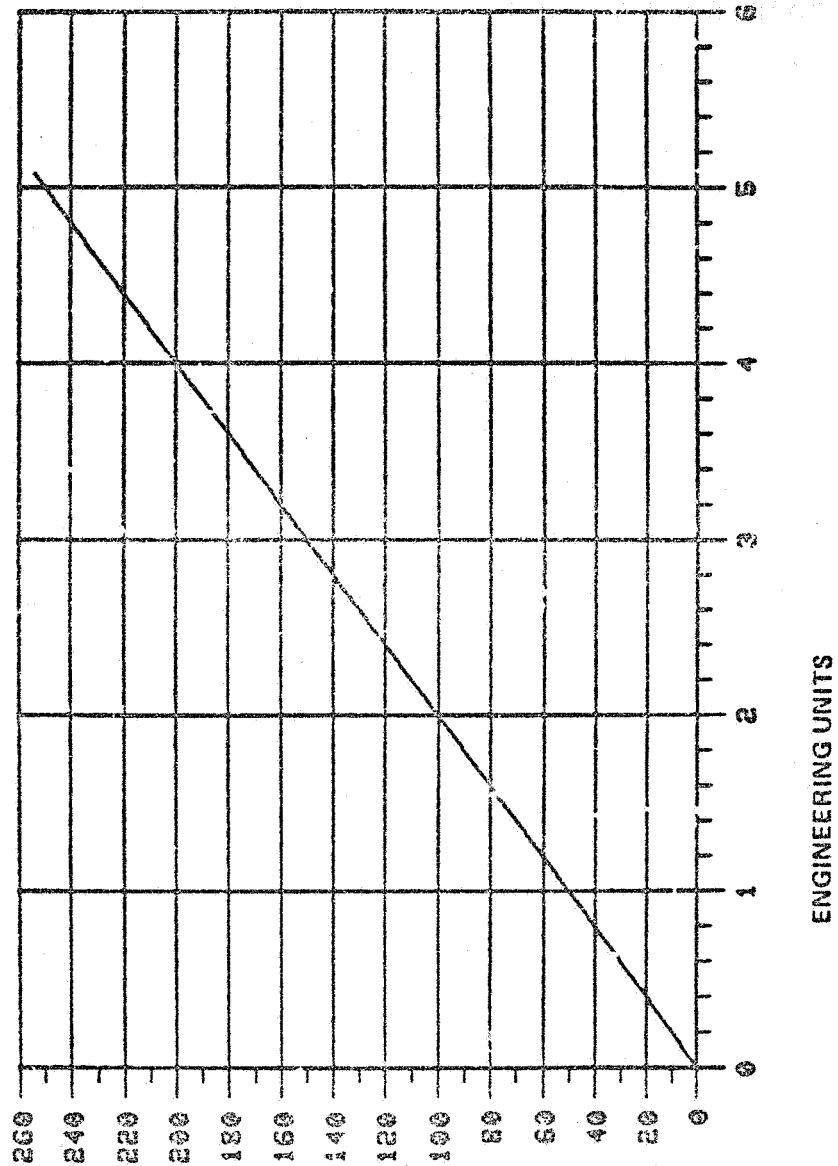
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COUNTS VS ENGINEERING UNITS FOR ZEARATC



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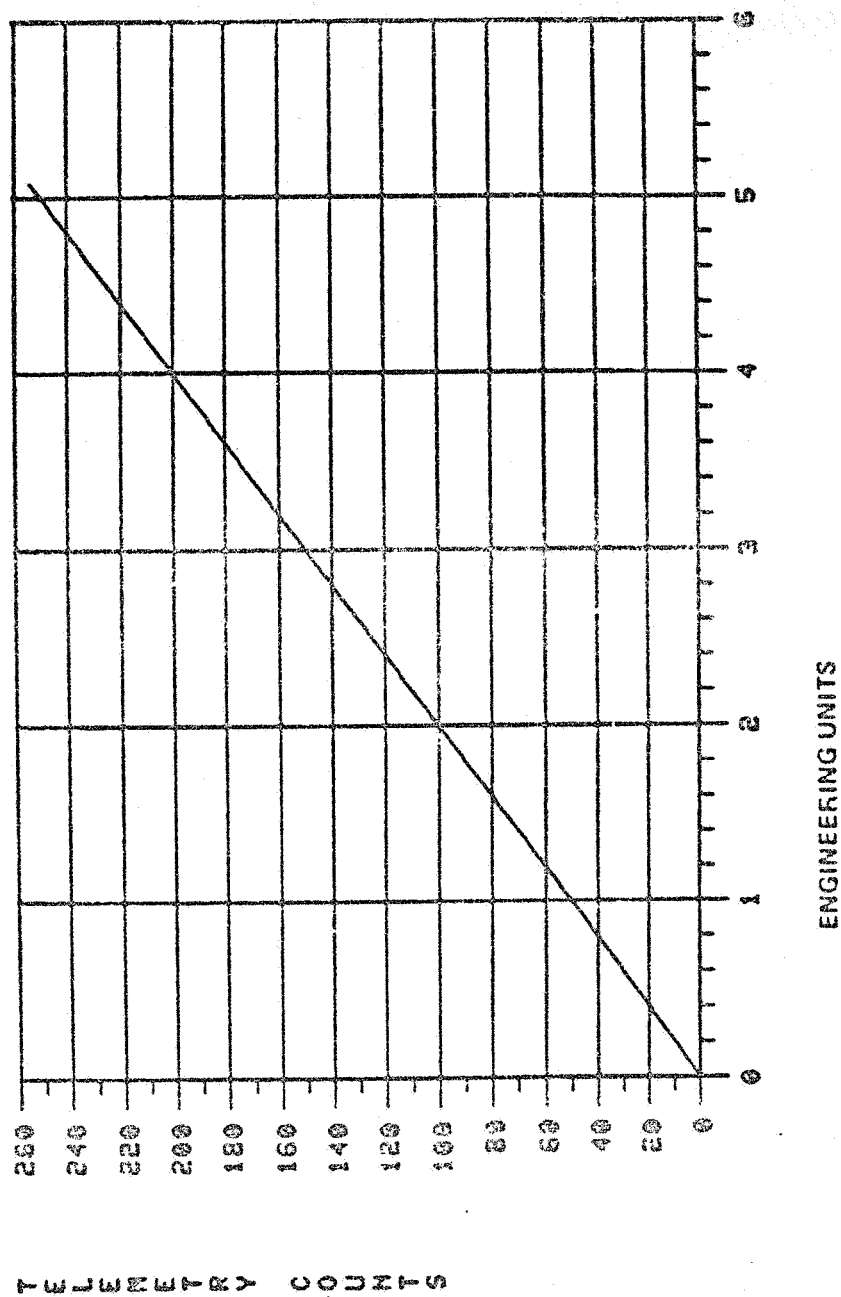
COUNTS VS ENGINEERING UNITS FOR ZEBNATC



FEBRUARY COUNTS

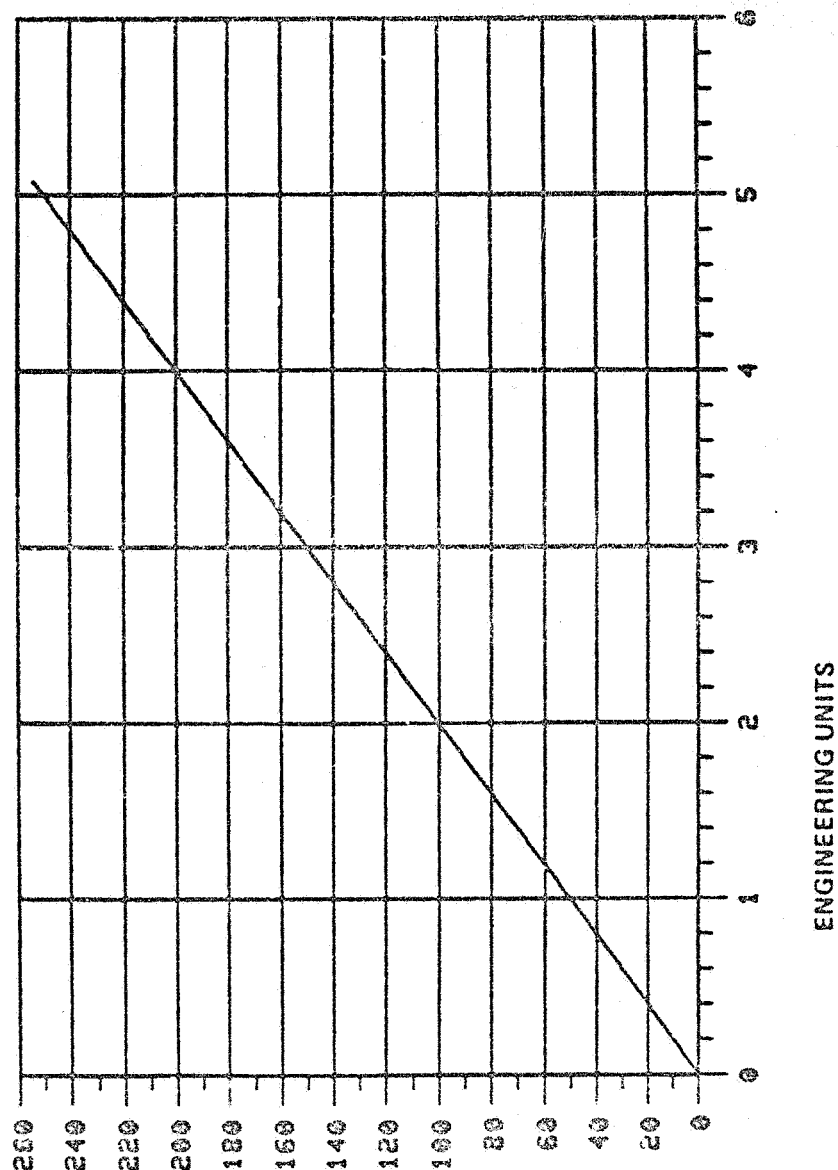
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COUNTS VS ENGINEERING UNITS FOR ZEBNCGEN



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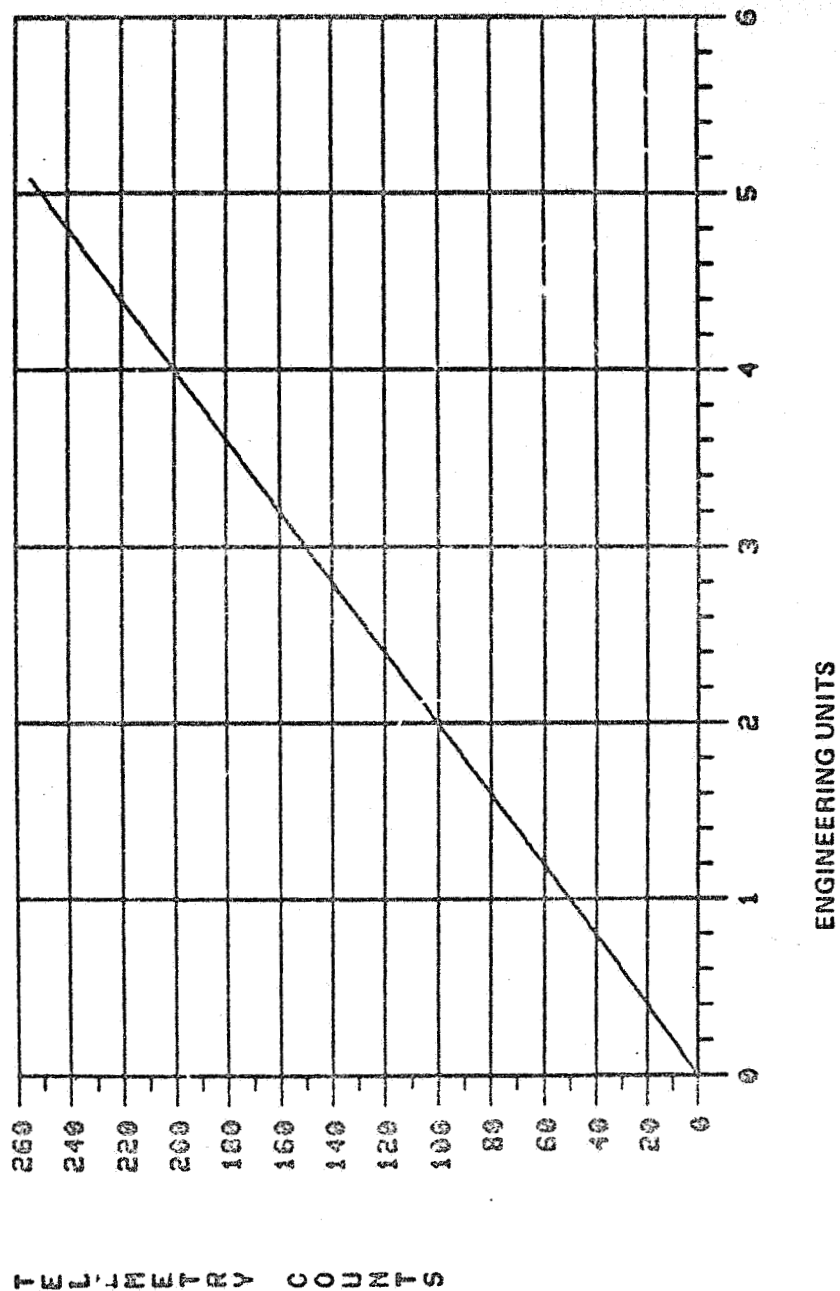
COUNTS VS ENGINEERING UNITS FOR ZEDPATC



TELEMETRY COUNTS

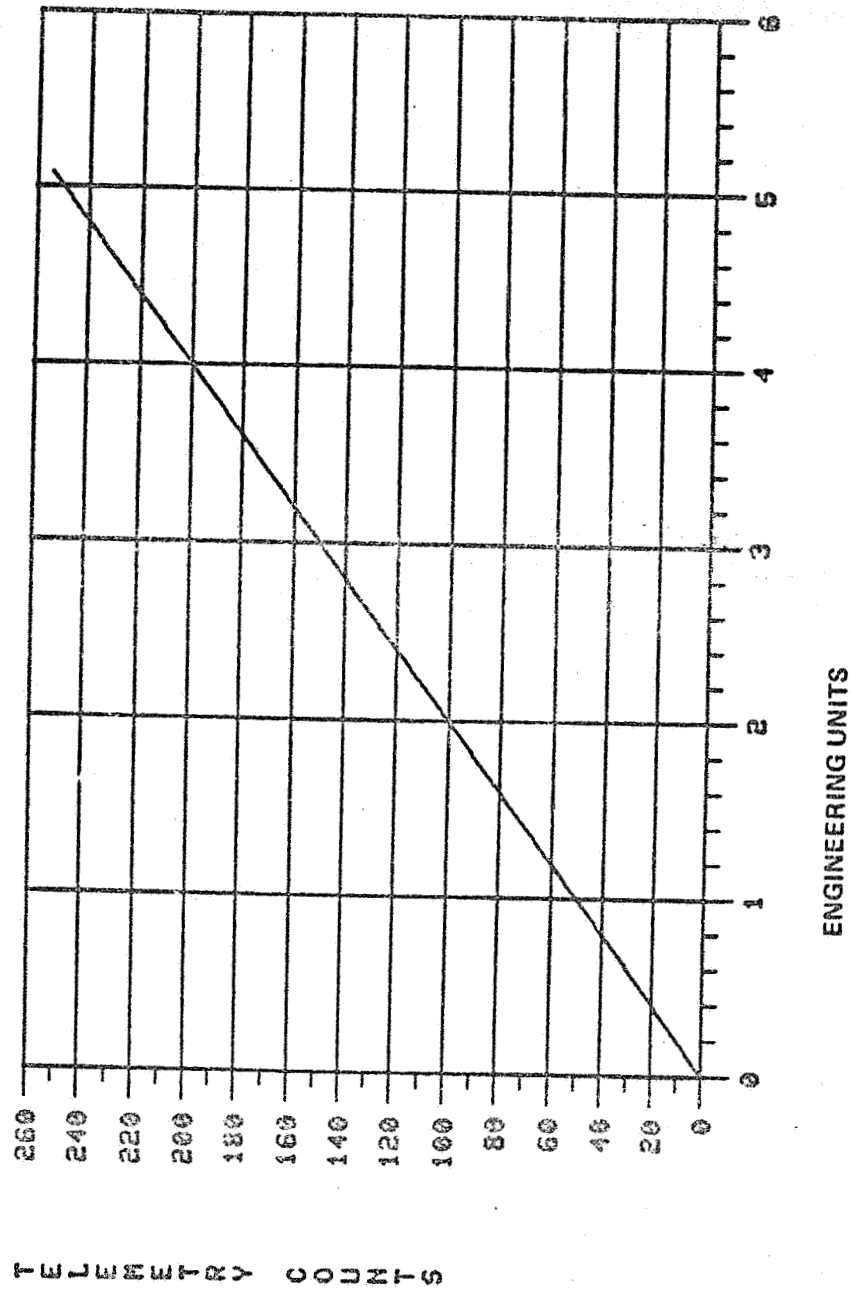
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COUNTS VS ENGINEERING UNITS FOR ZEBPGEN



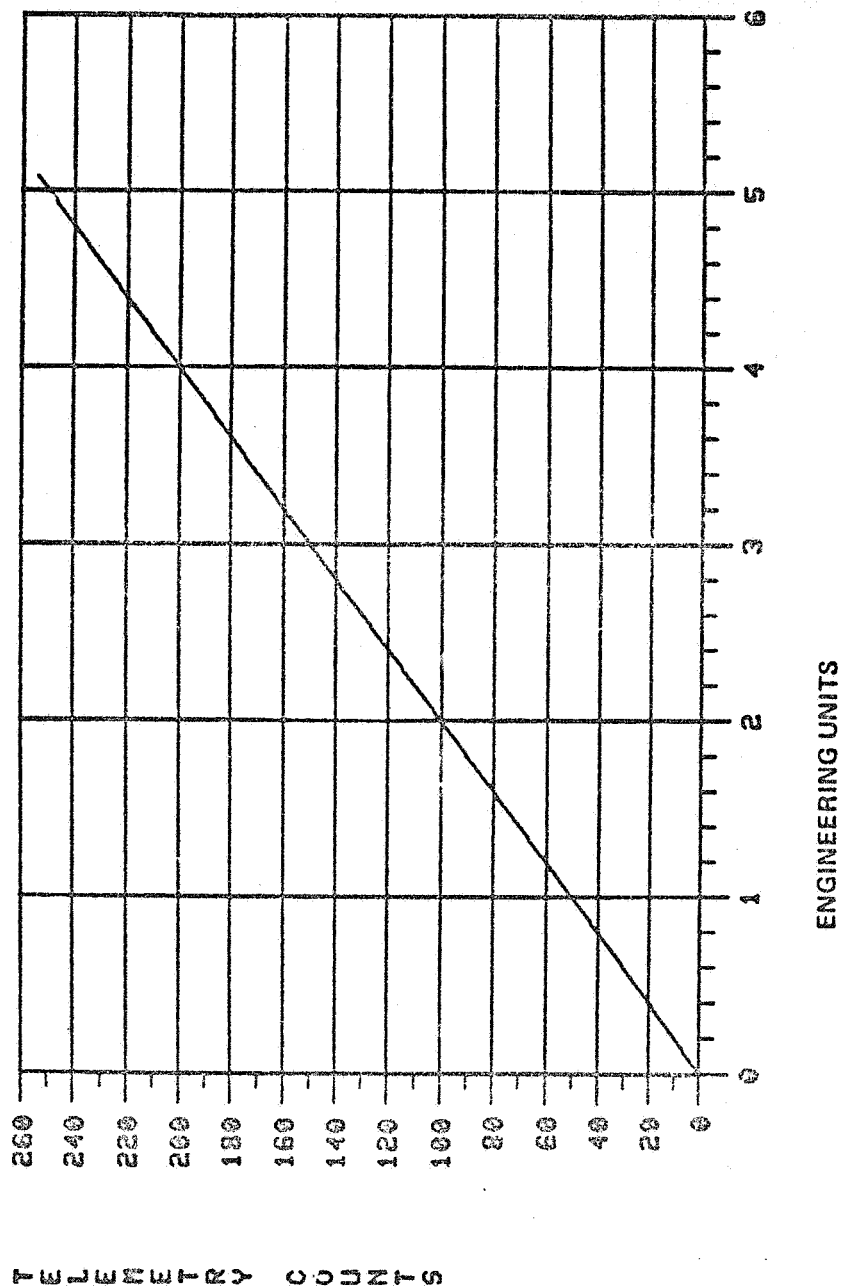
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COUNTS VS ENGINEERING UNITS FOR ZEDPULS



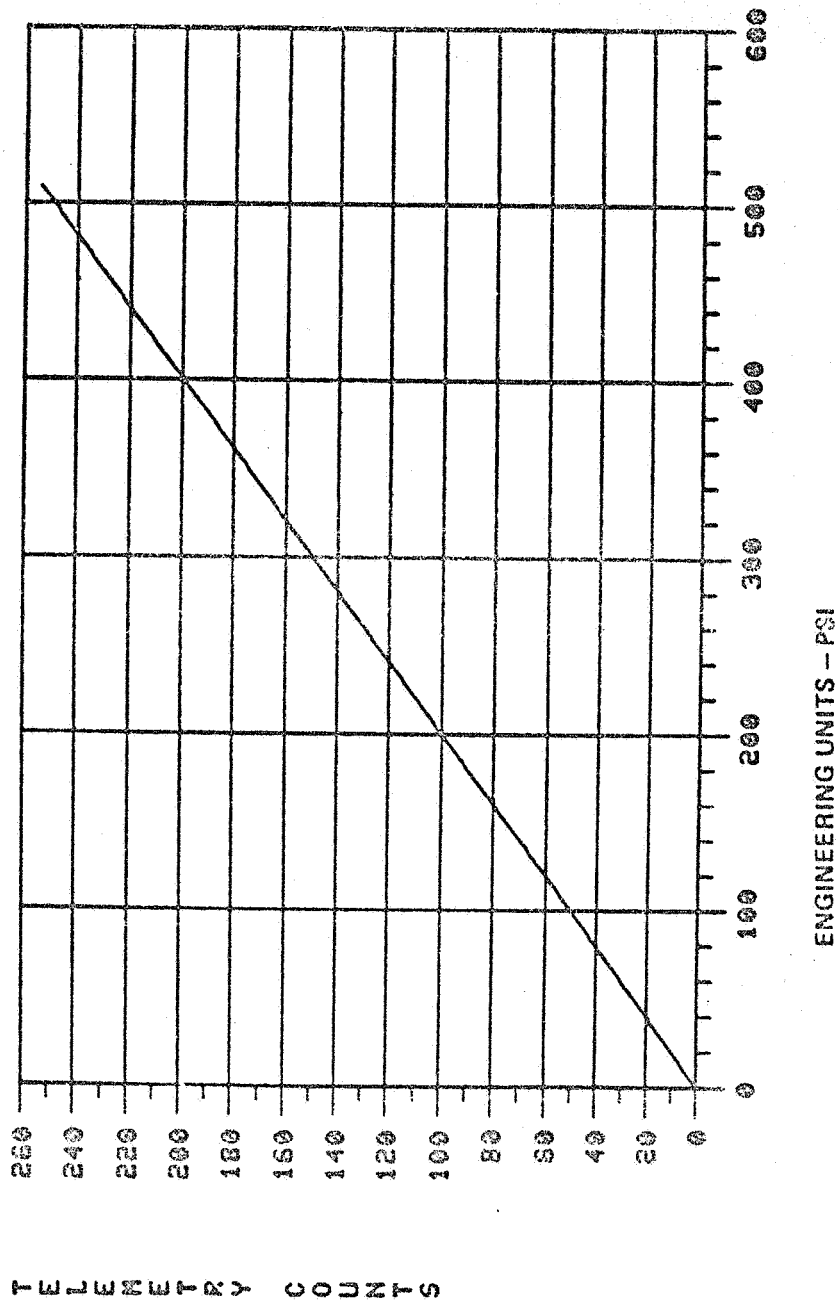
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COUNTS VS ENGINEERING UNITS FOR ZEBRHTC



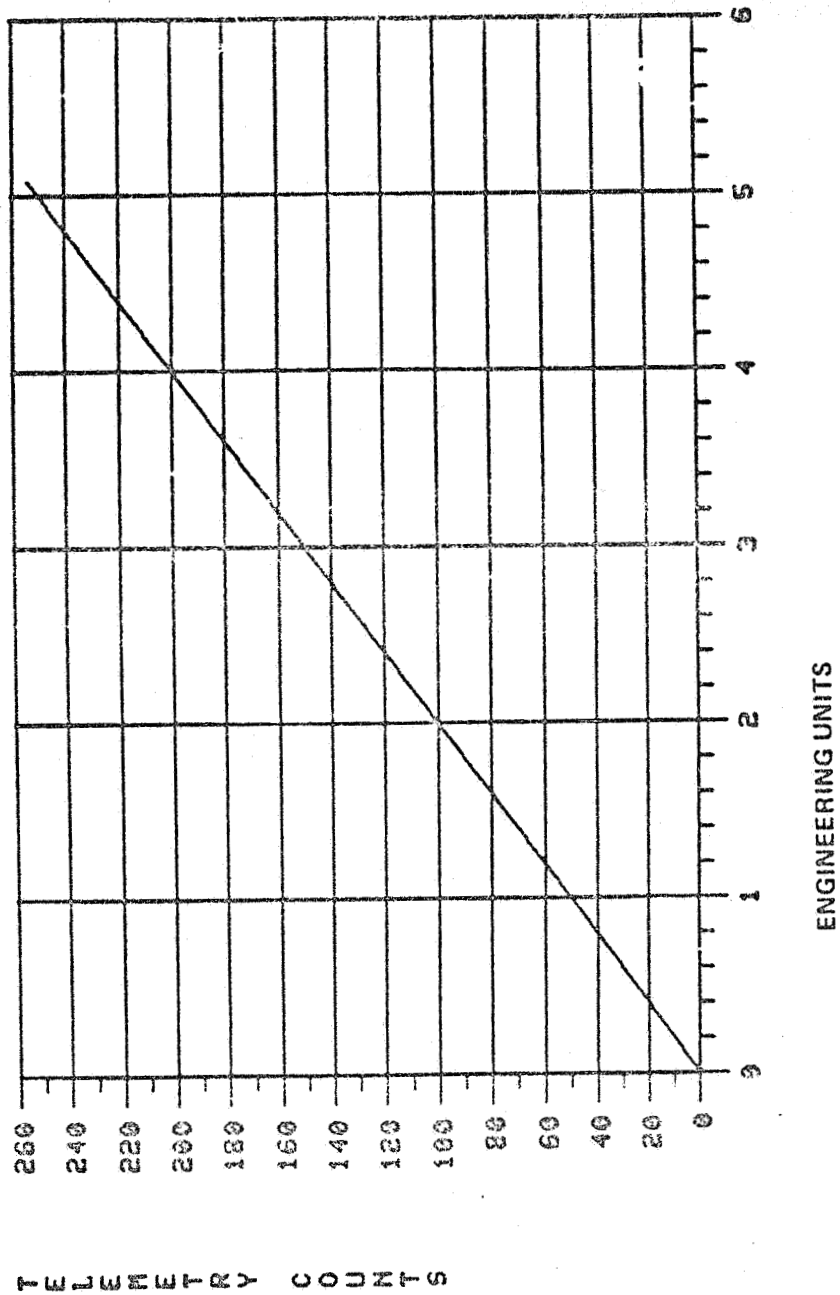
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COUNTS VS ENGINEERING UNITS FOR ZFULPSI



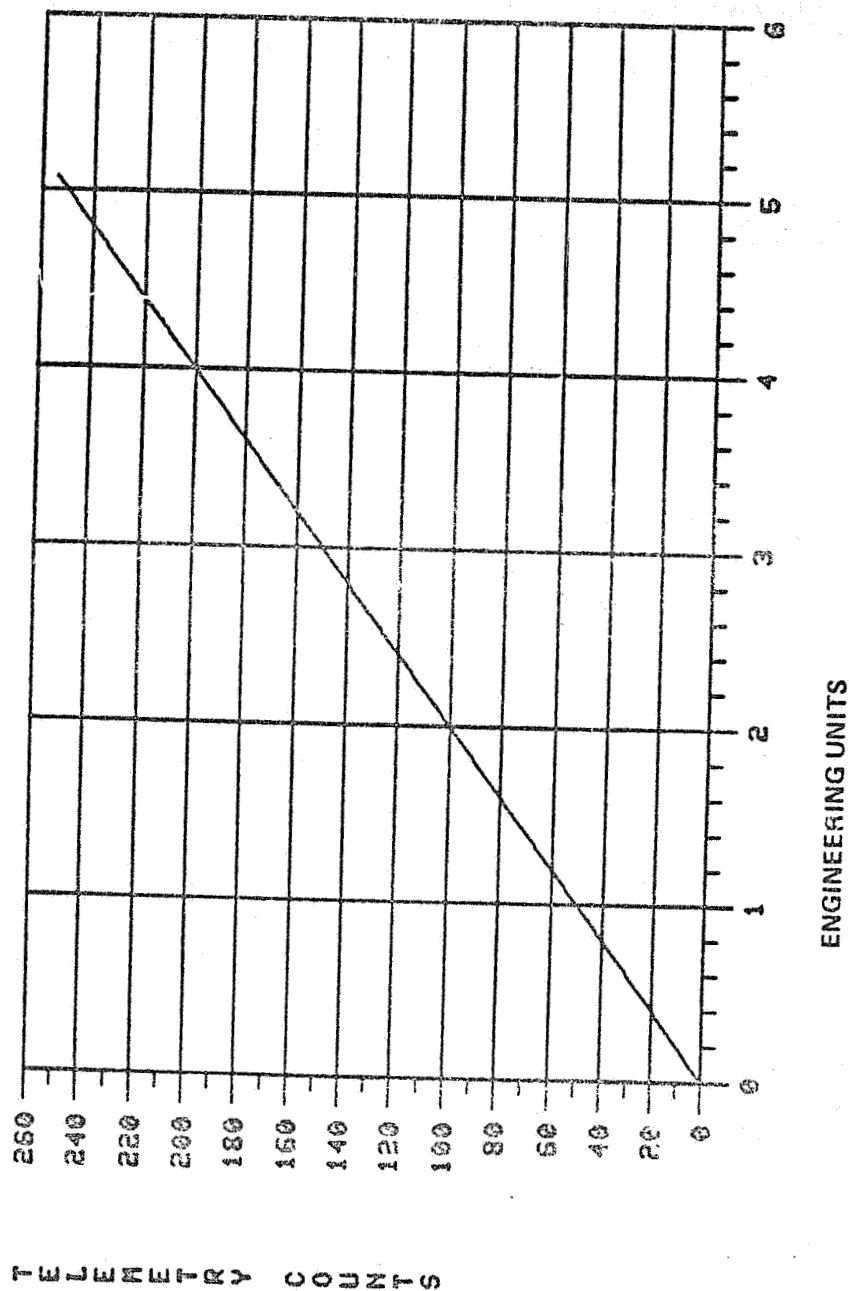
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COUNTS US ENGINEERING UNITS FOR ZHTREUS



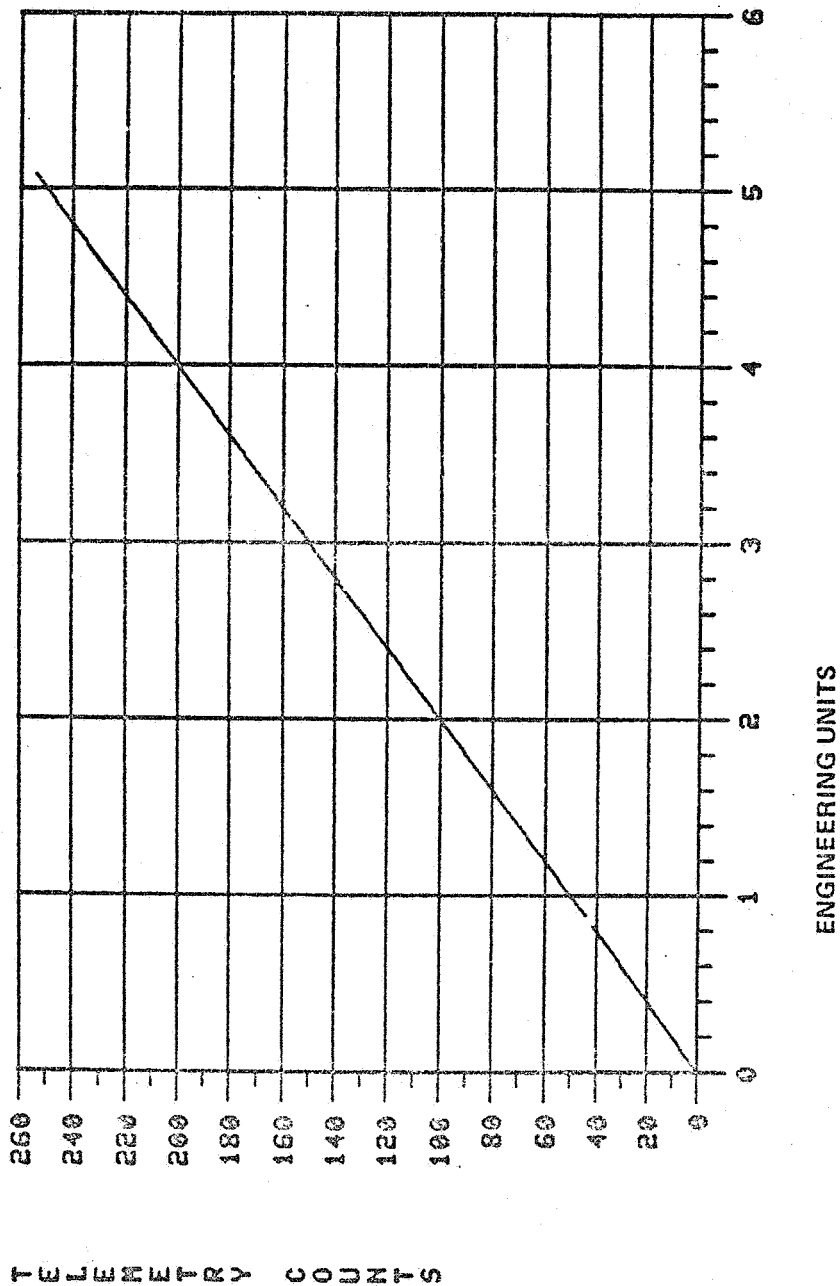
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COUNTS VS ENGINEERING UNITS FOR ZLU123



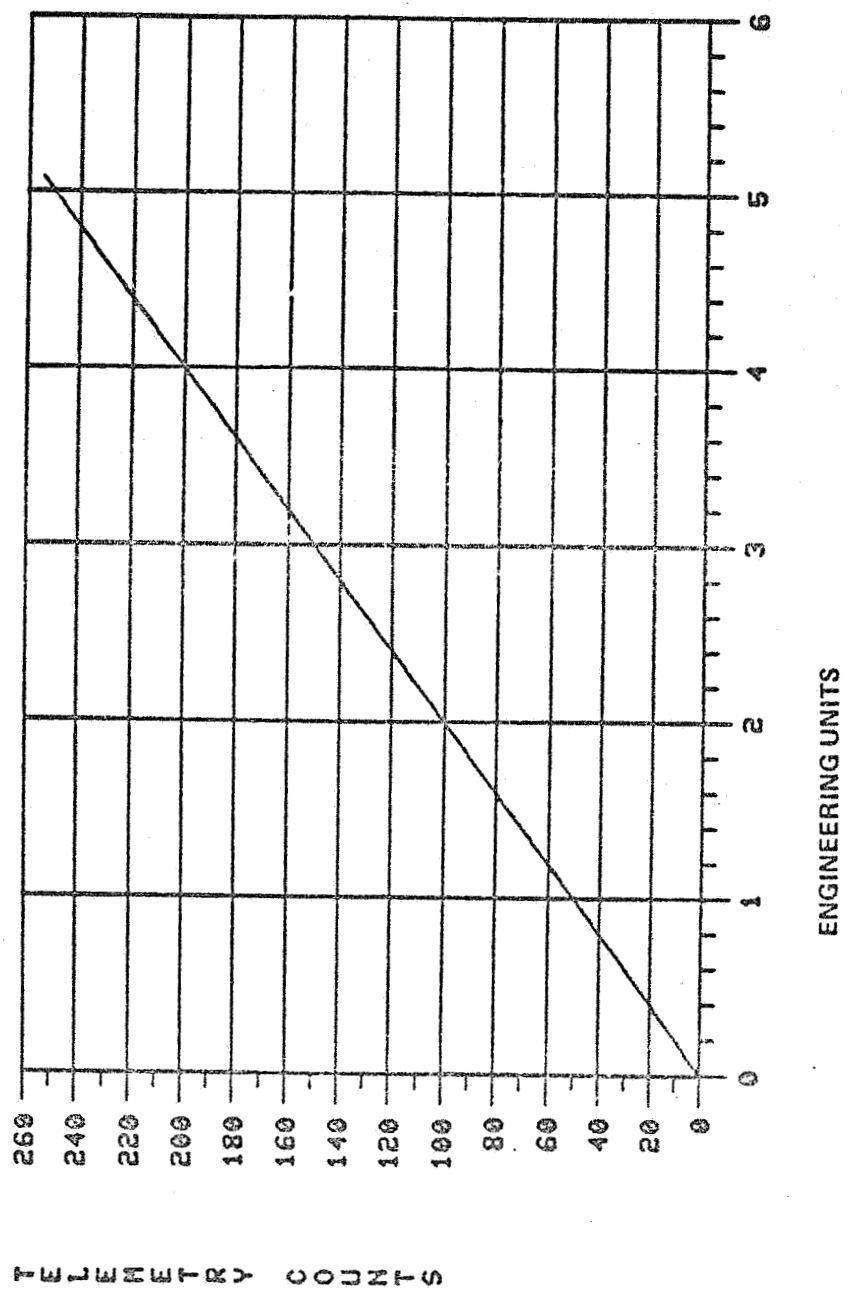
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COUNTS VS ENGINEERING UNITS FOR ZLU456



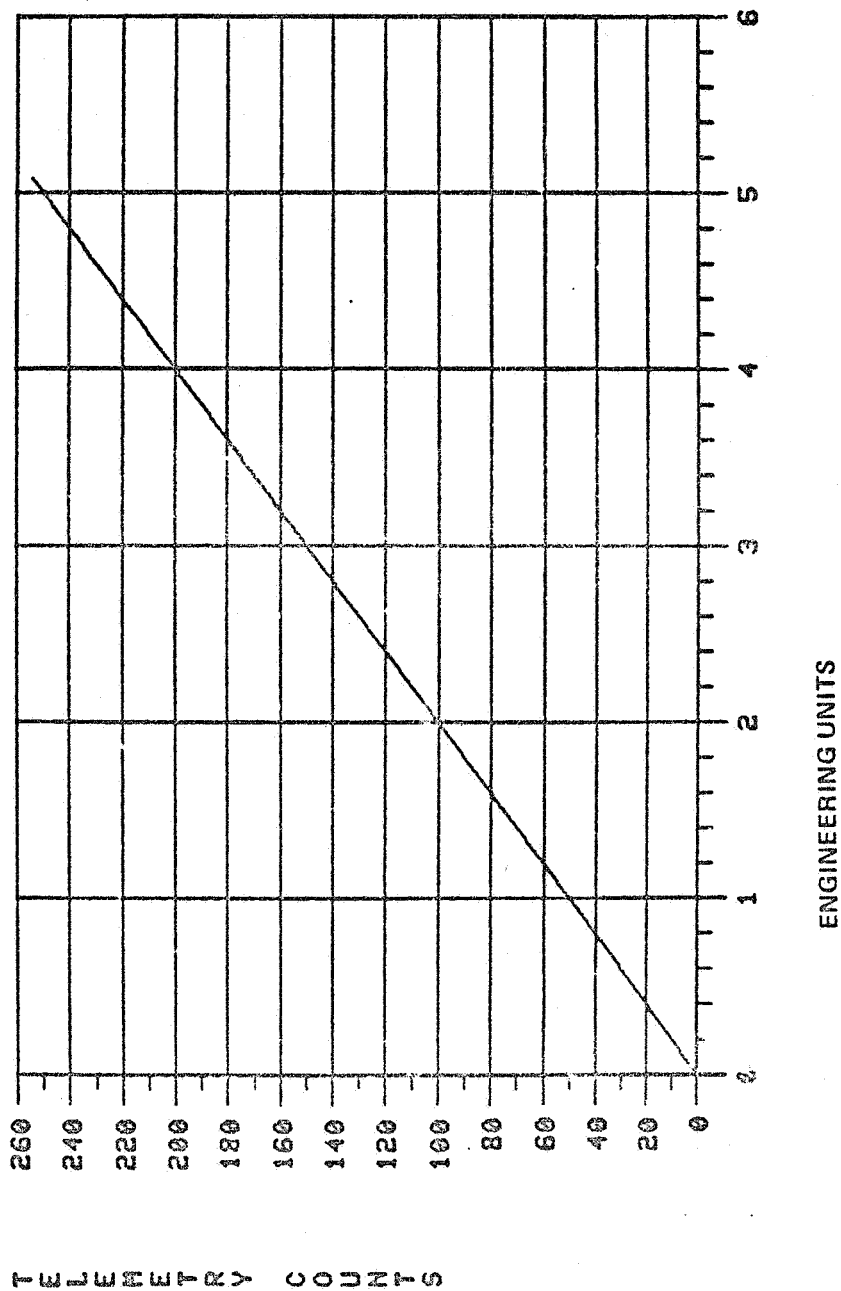
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COUNTS VS ENGINEERING UNITS FOR ZLUDURS



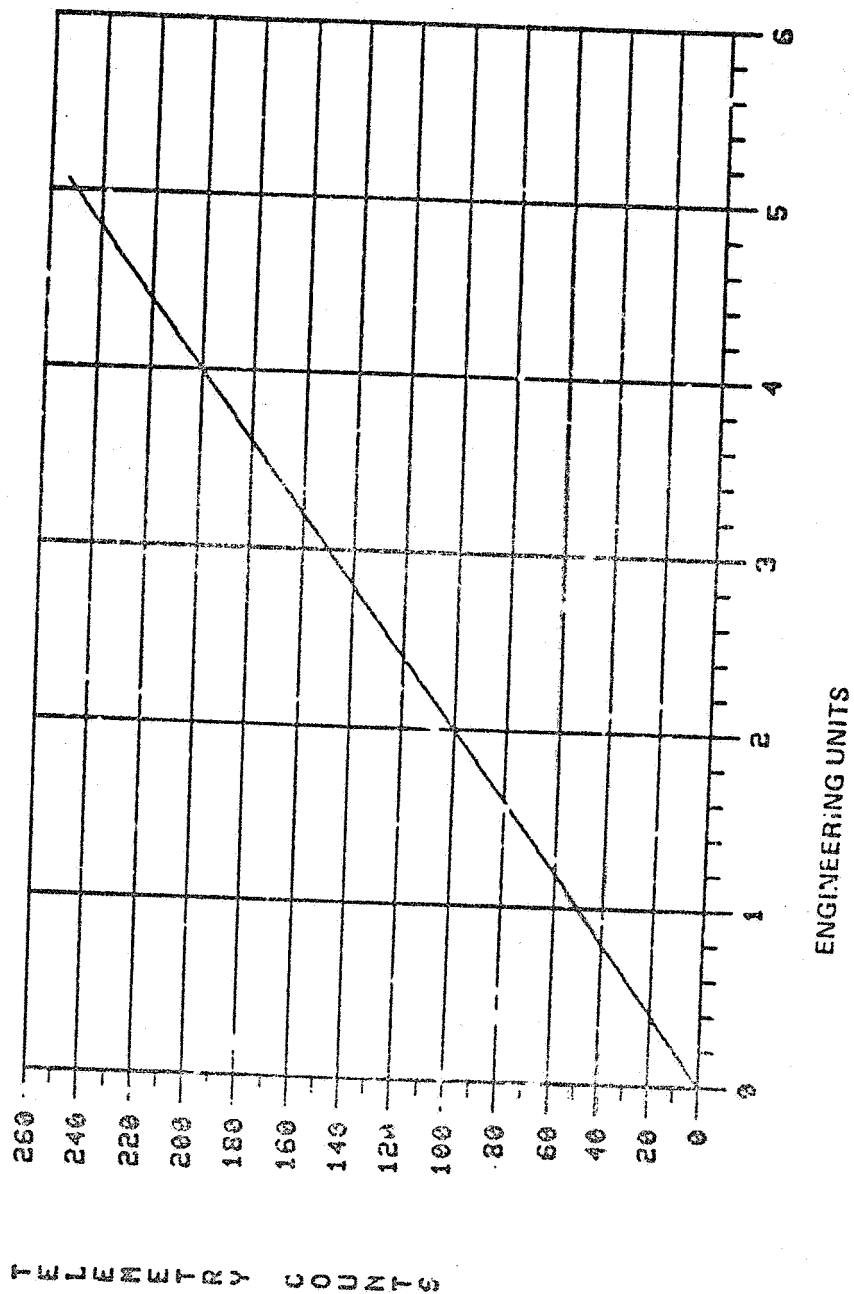
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COUNTS VS ENGINEERING UNITS FOR ZRMAATC



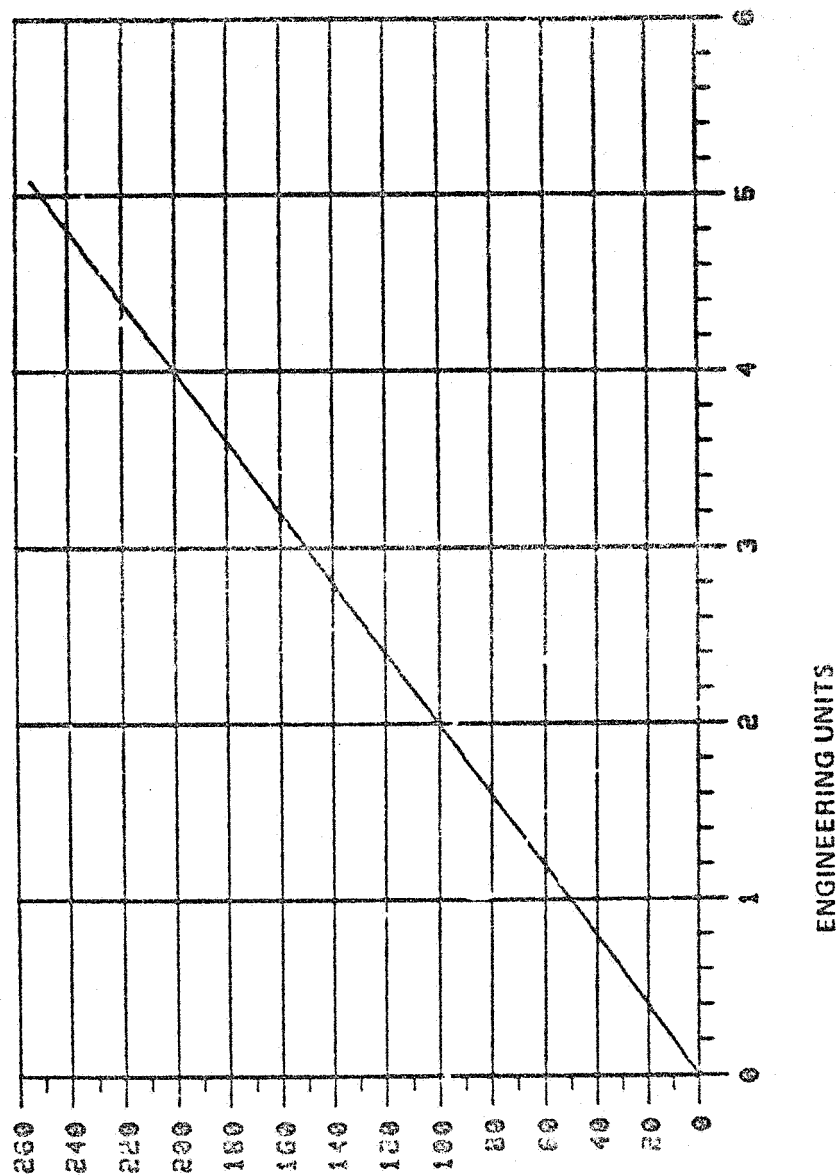
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COUNTS VS ENGINEERING UNITS FOR ZRMACTC



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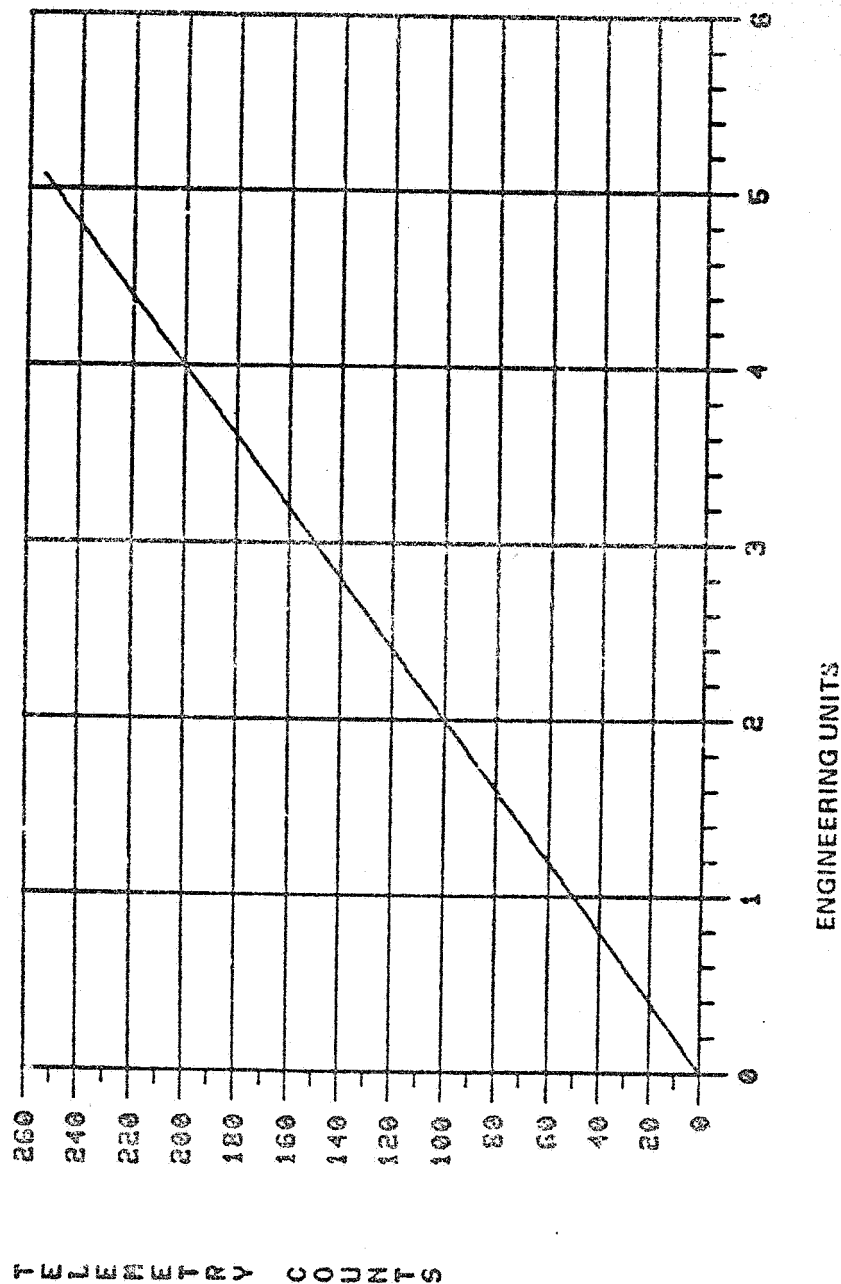
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TELEMETRY COUNTS

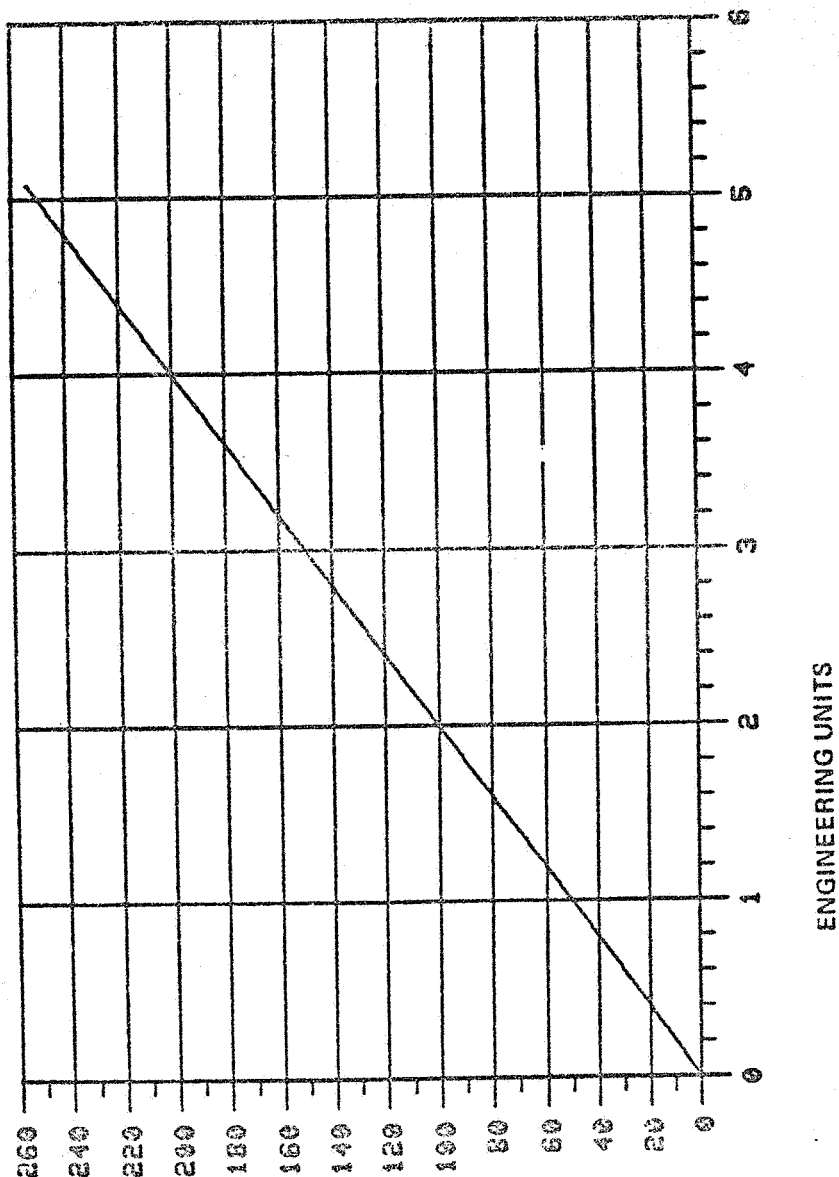
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COUNTS VS ENGINEERING UNITS FOR ZRMBDTC



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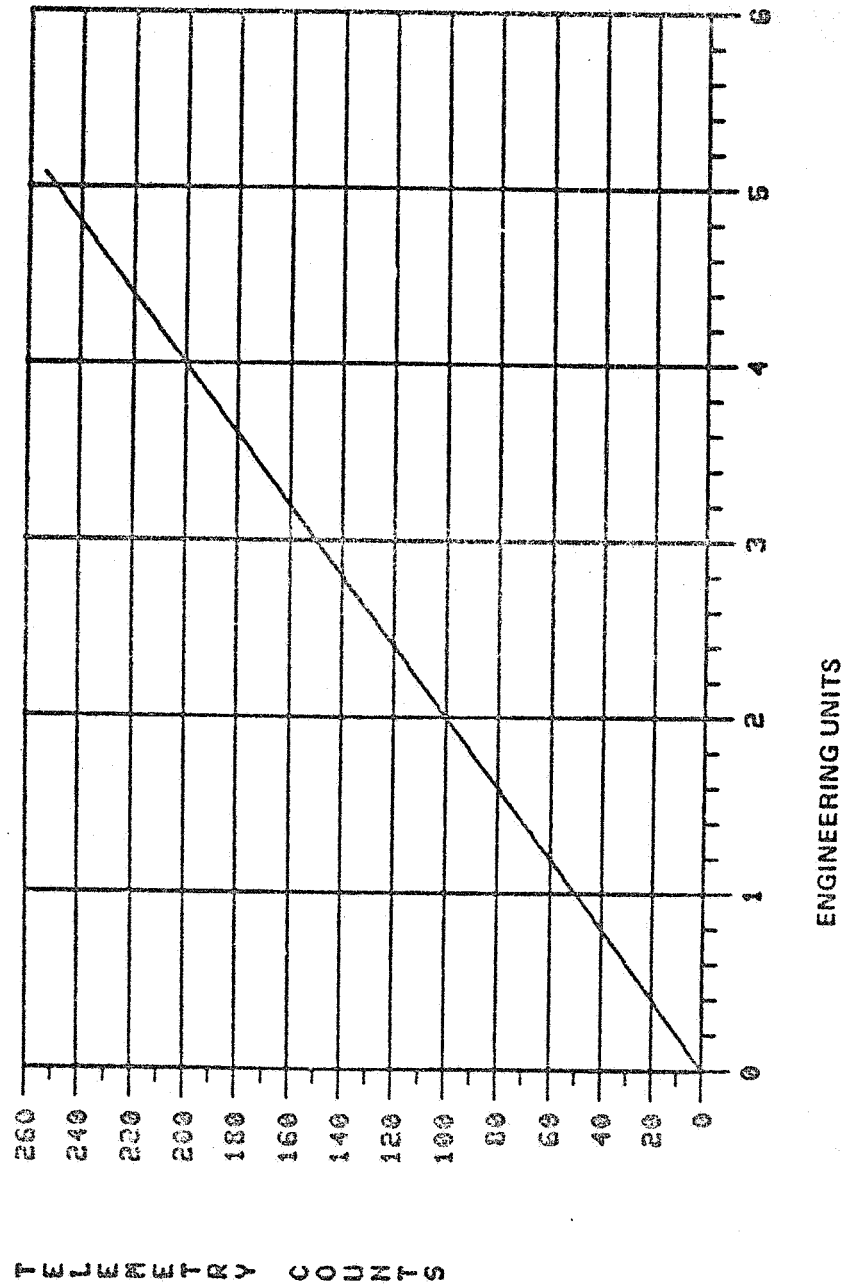
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TELEMETRY COUNTS

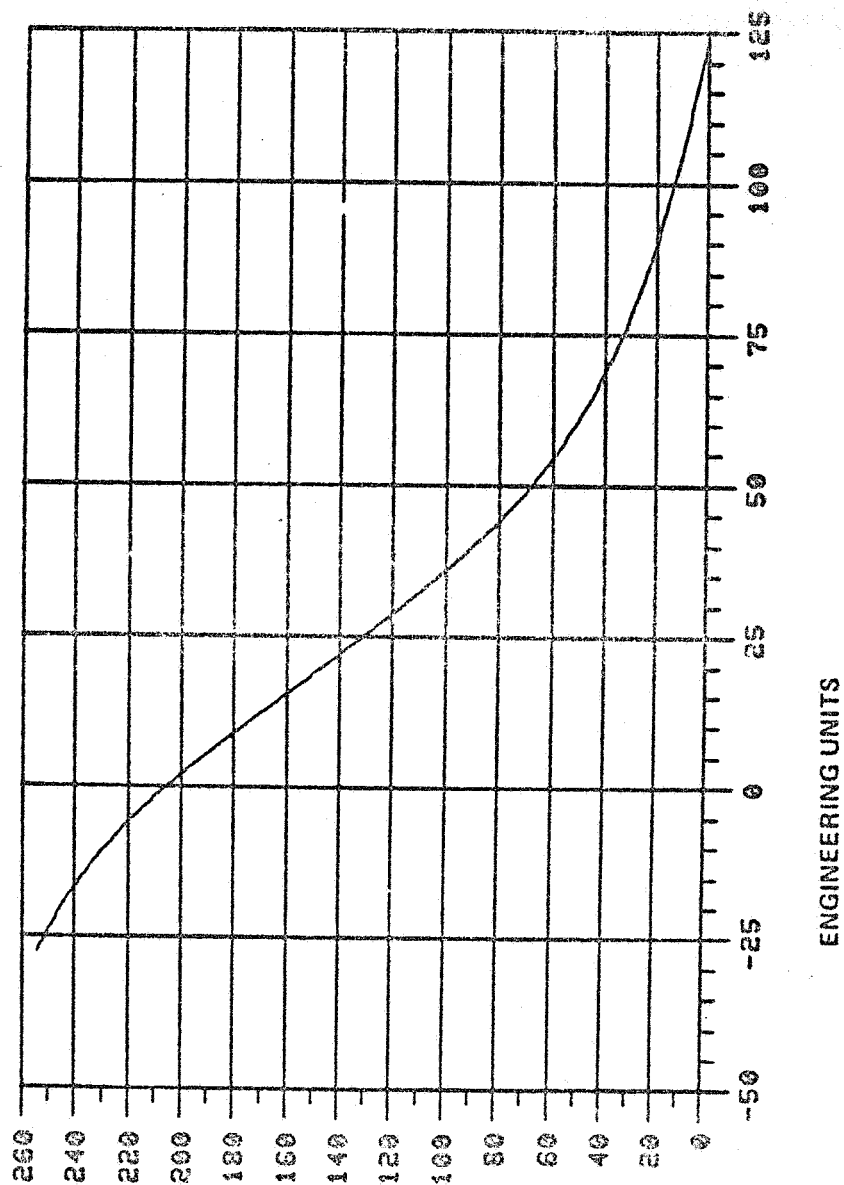
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COUNTS US ENGINEERING UNITS FOR ZRRDATC



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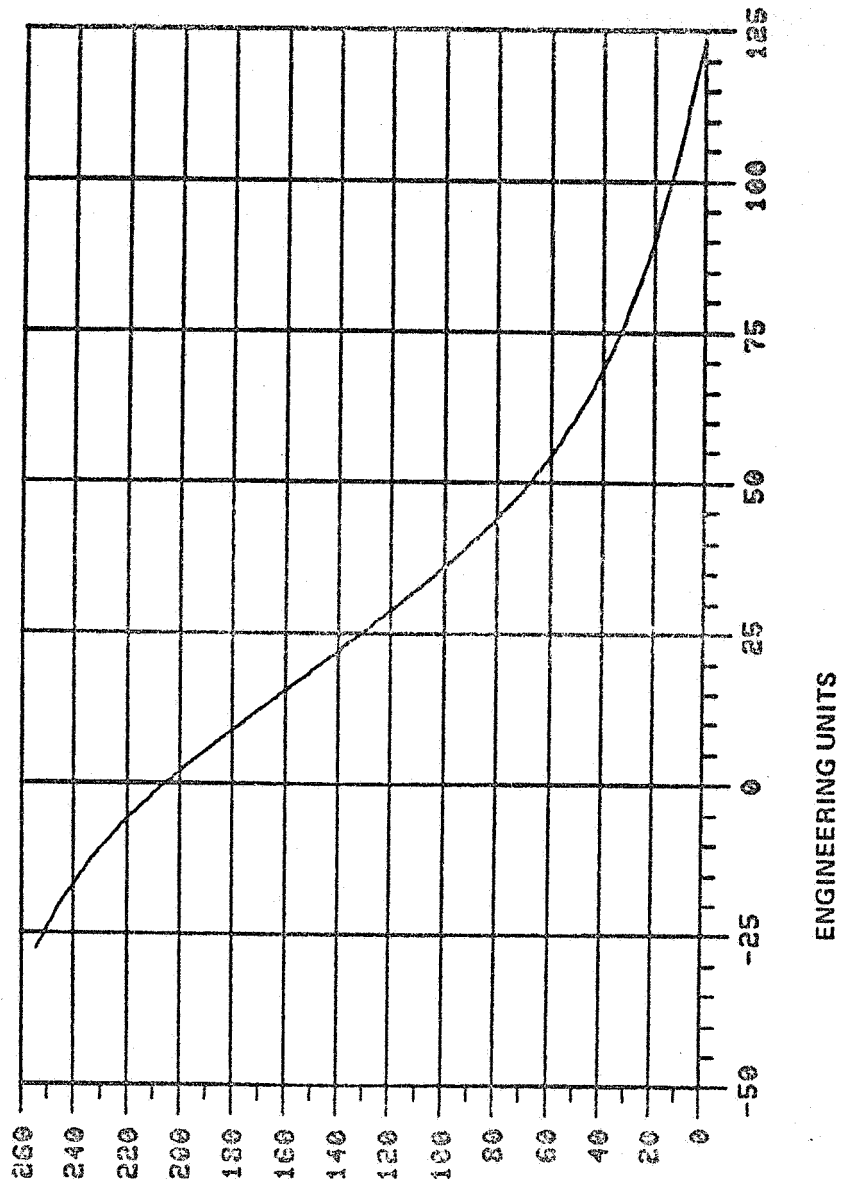
COUNTS VS ENGINEERING UNITS FOR ZT1AFUL



TELEMETRY COUNTS

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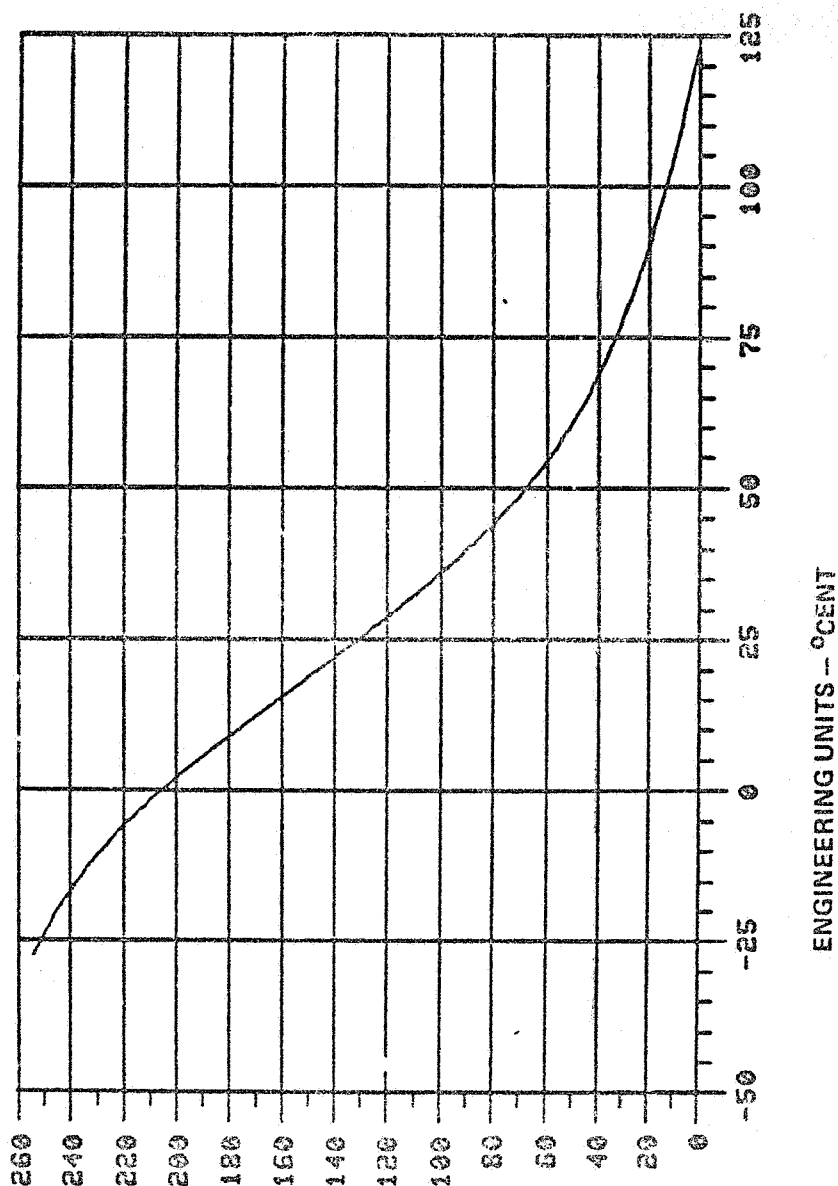
COUNTS VS ENGINEERING UNITS FOR 2T1ALIN



TELEMETRY COUNTS

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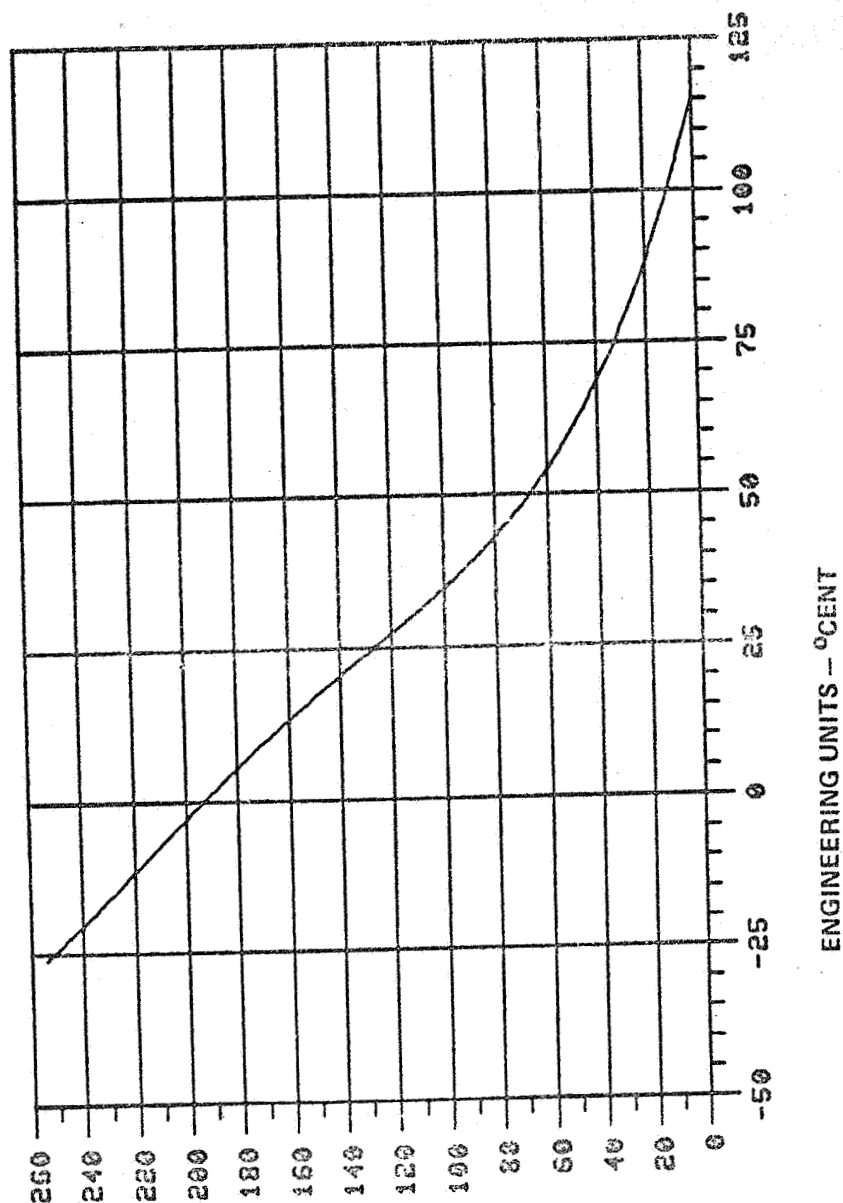
COUNTS VS ENGINEERING UNITS FOR ZT1ATNK



TELEMETRY COUNTS

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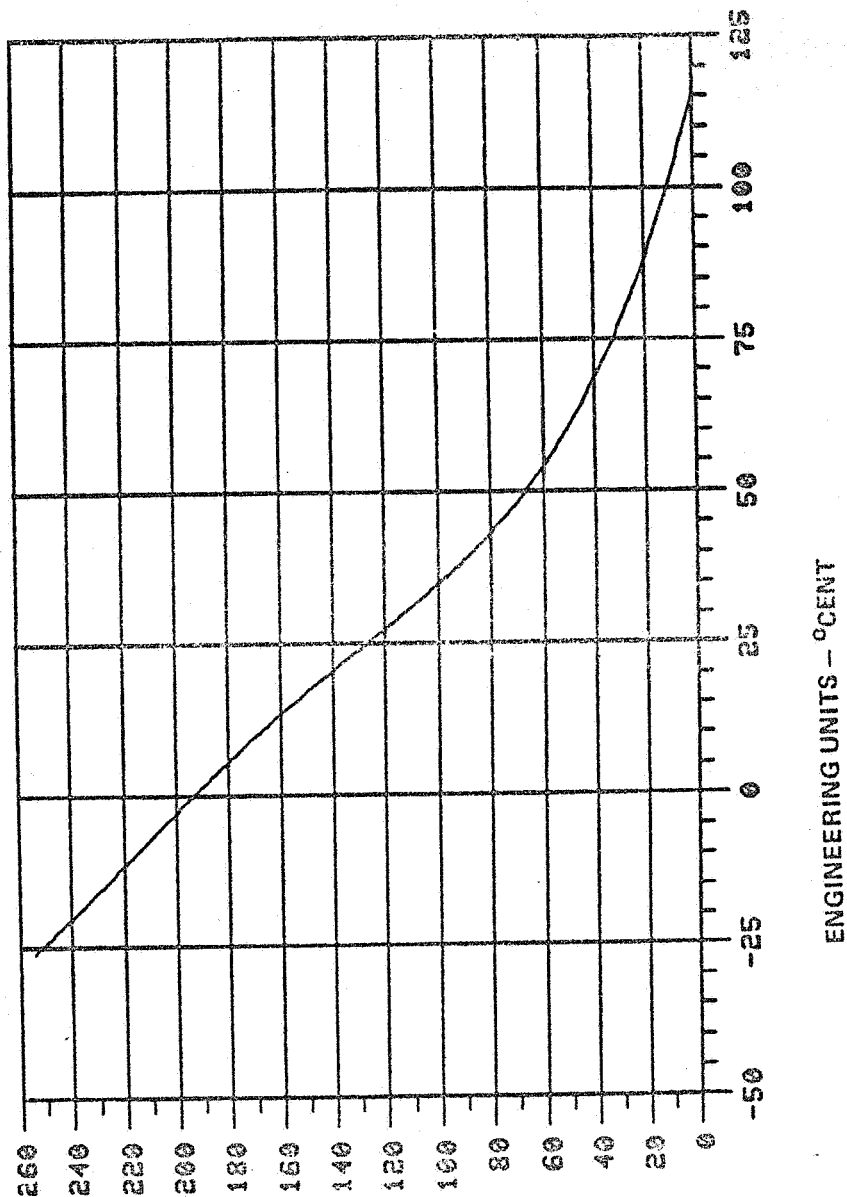
COUNTS VS ENGINEERING UNITS FOR ZTBMCTR



TELEMETRY COUNTS

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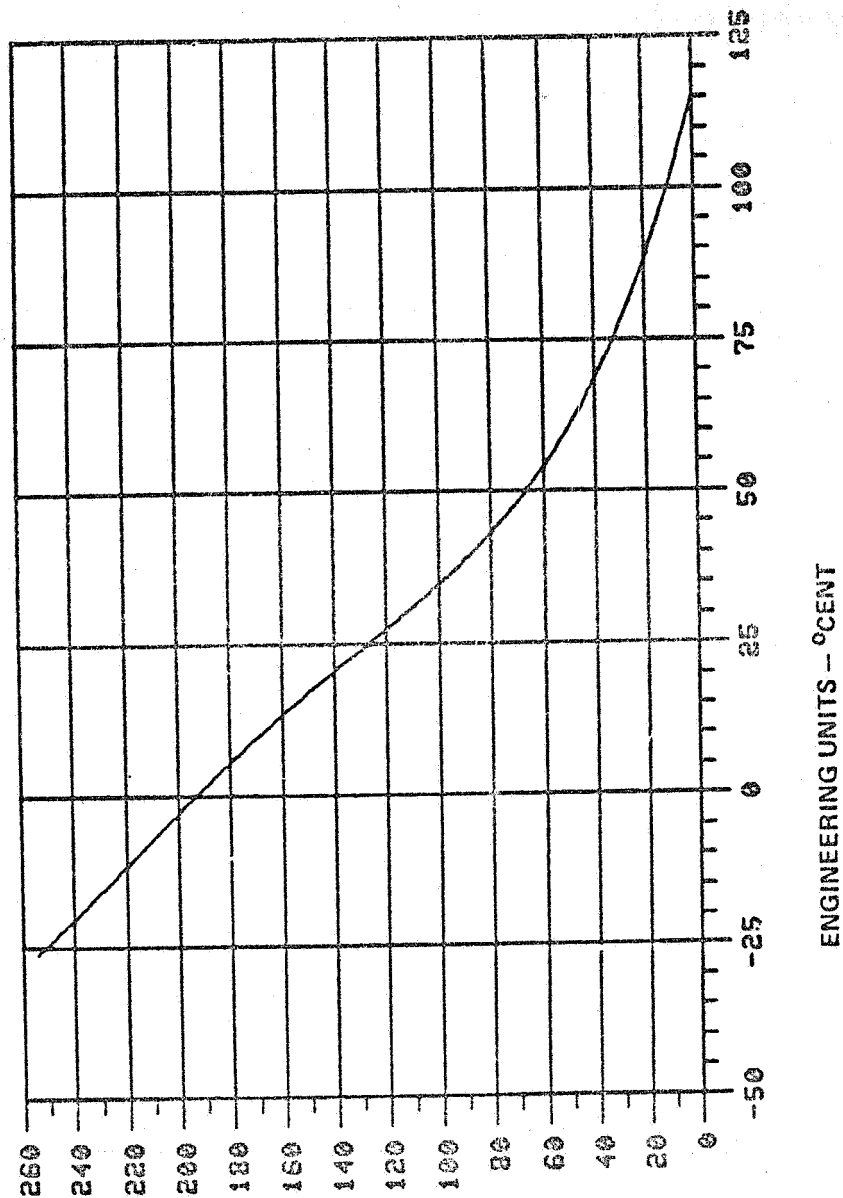
COUNTS VS ENGINEERING UNITS FOR ZTDHRNAB



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR ZTLU1LU4

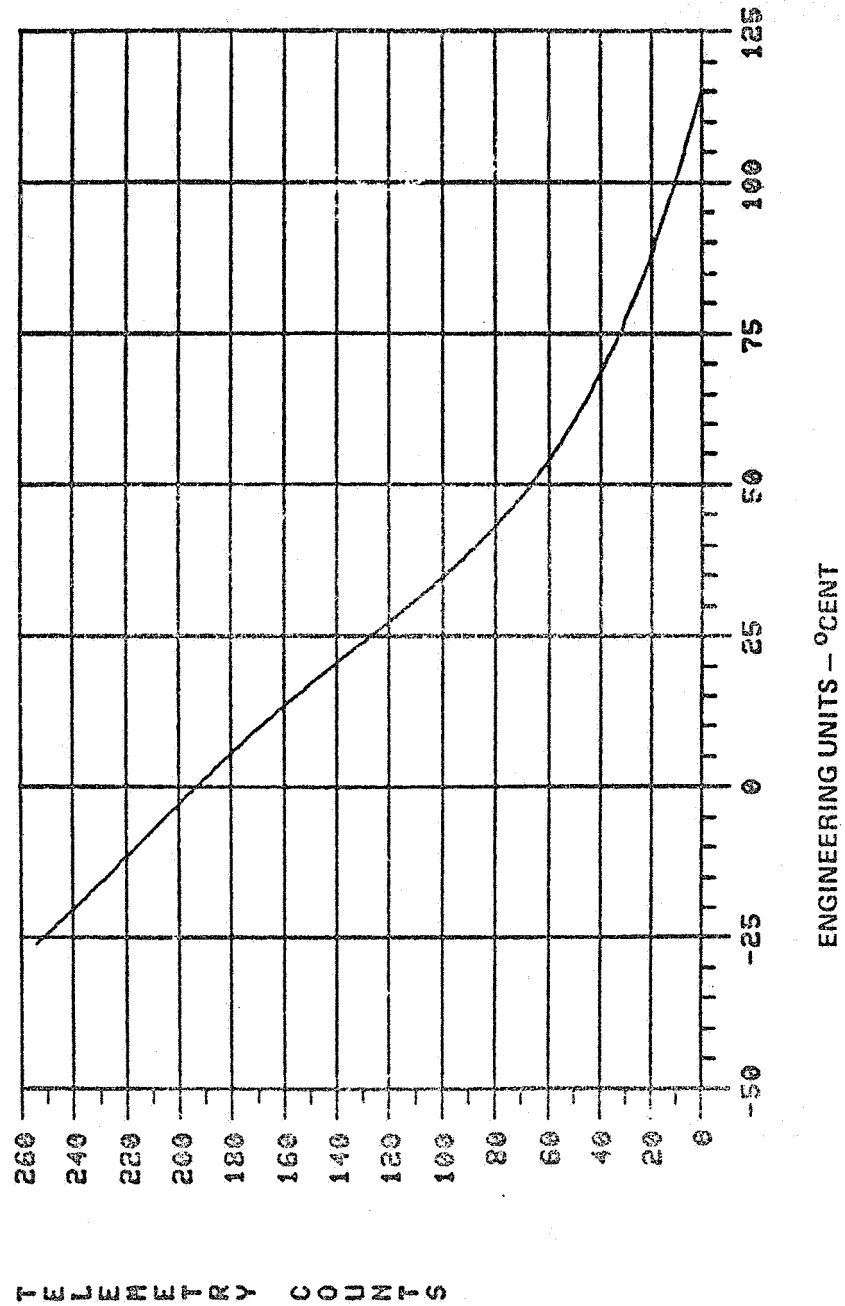


TELEMETRY COUNTS

ENGINEERING UNITS - °CENT

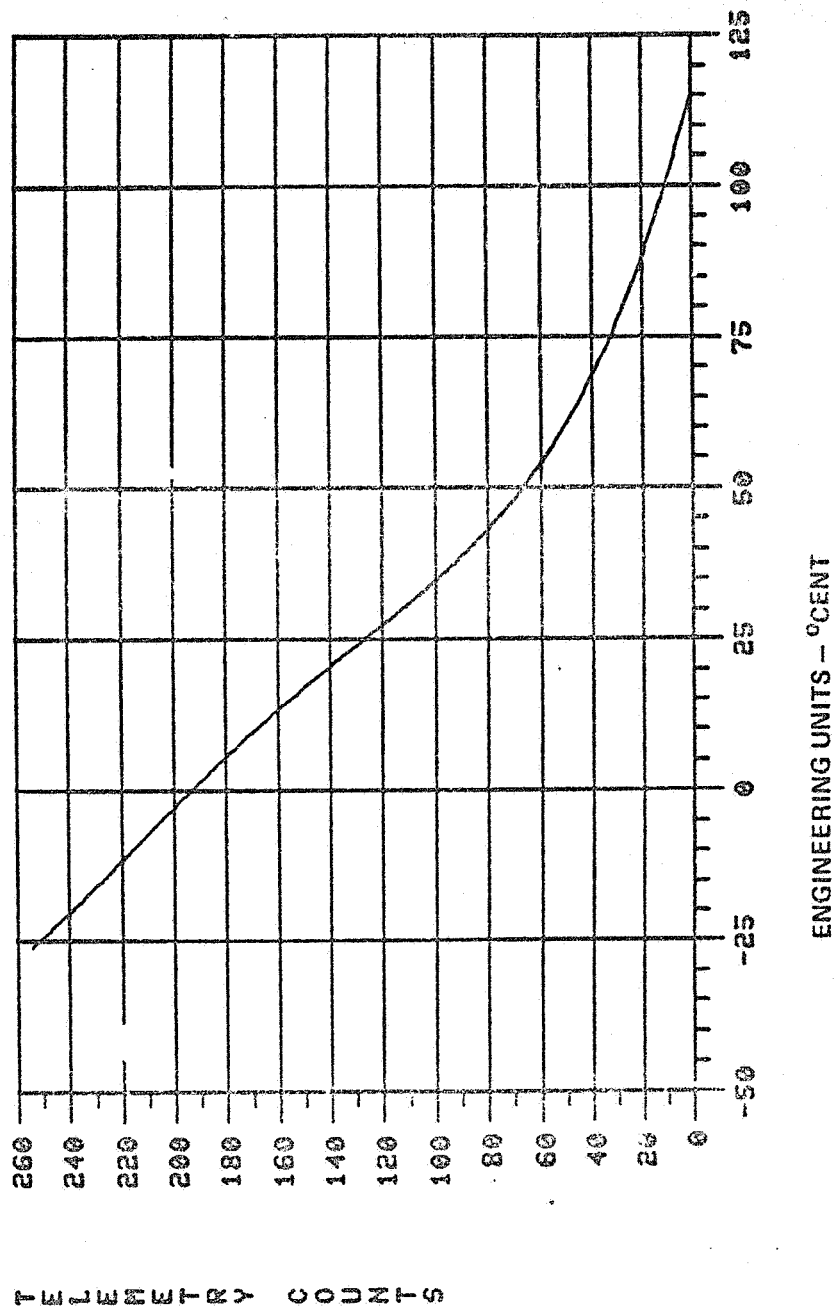
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COUNTS VS ENGINEERING UNITS FOR 2TLV2LUS



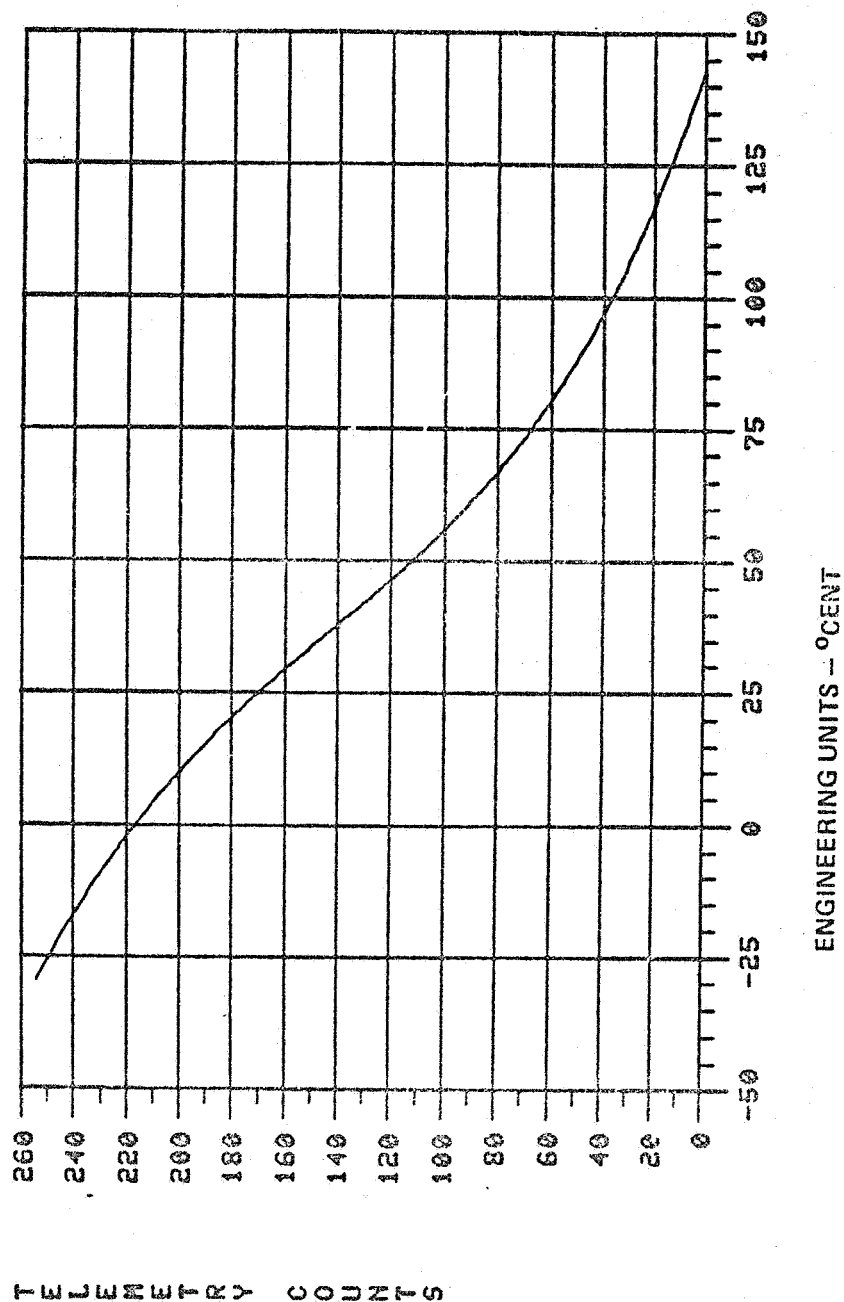
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COUNTS VS ENGINEERING UNITS FOR ZTLU3LUG



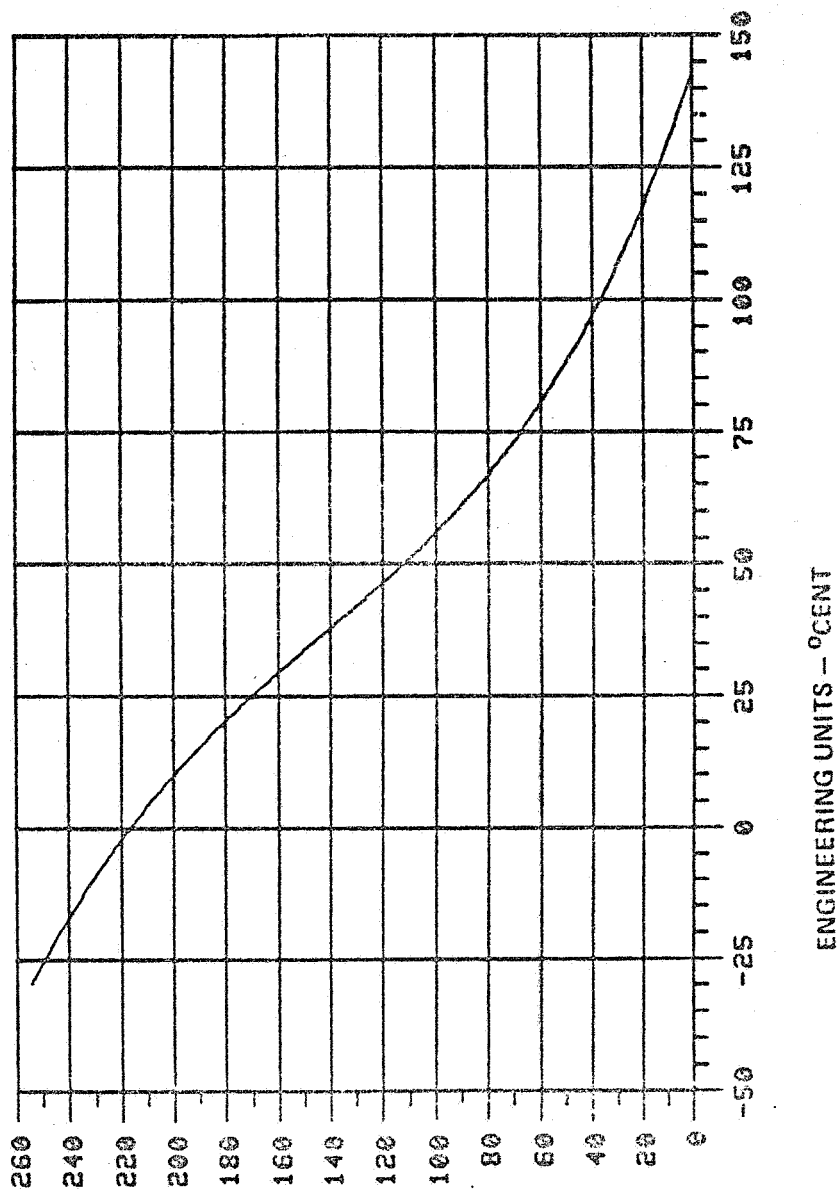
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COUNTS VS ENGINEERING UNITS FOR ZTRMA1A3



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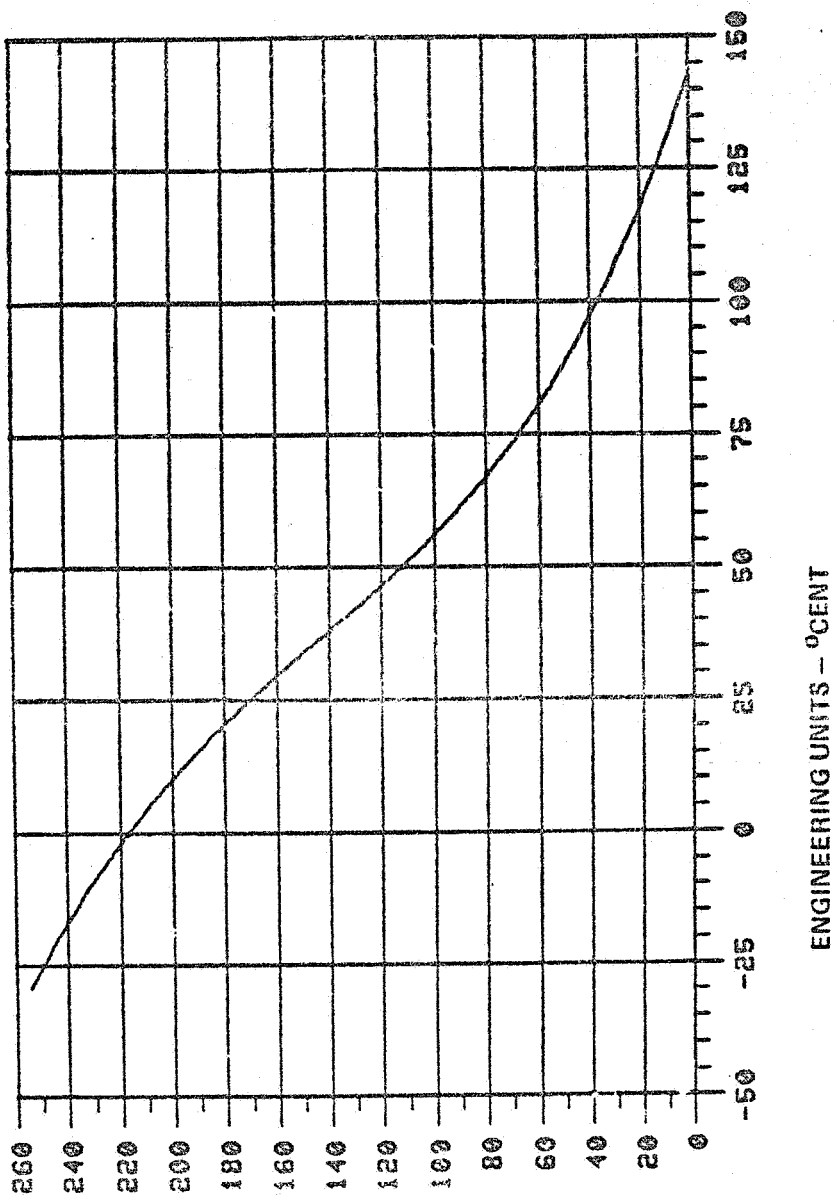
COUNTS VS ENGINEERING UNITS FOR ZTRNA2A4



TELEMETRY COUNTS

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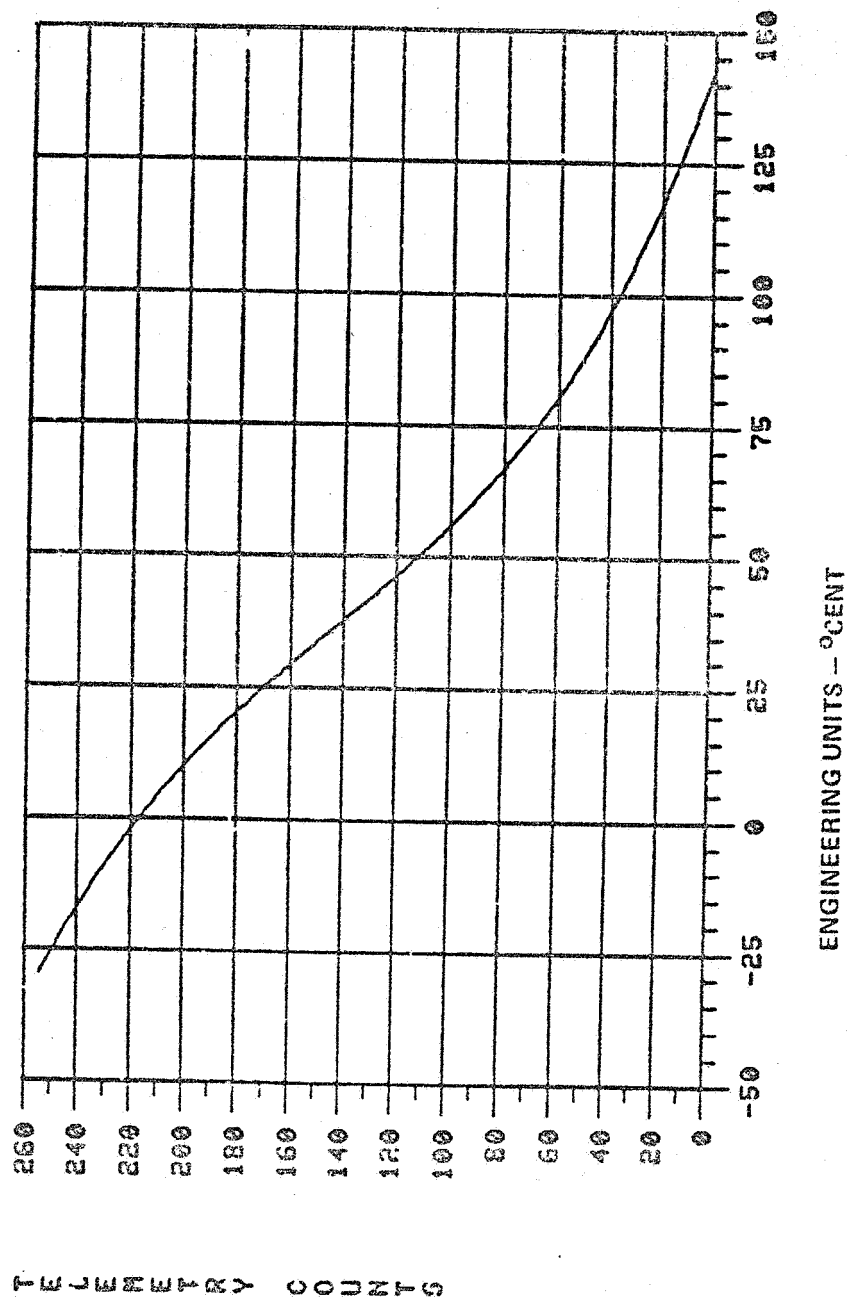
COUNTS VS ENGINEERING UNITS FOR ZTRND1B3



TELEMETRY COUNTS

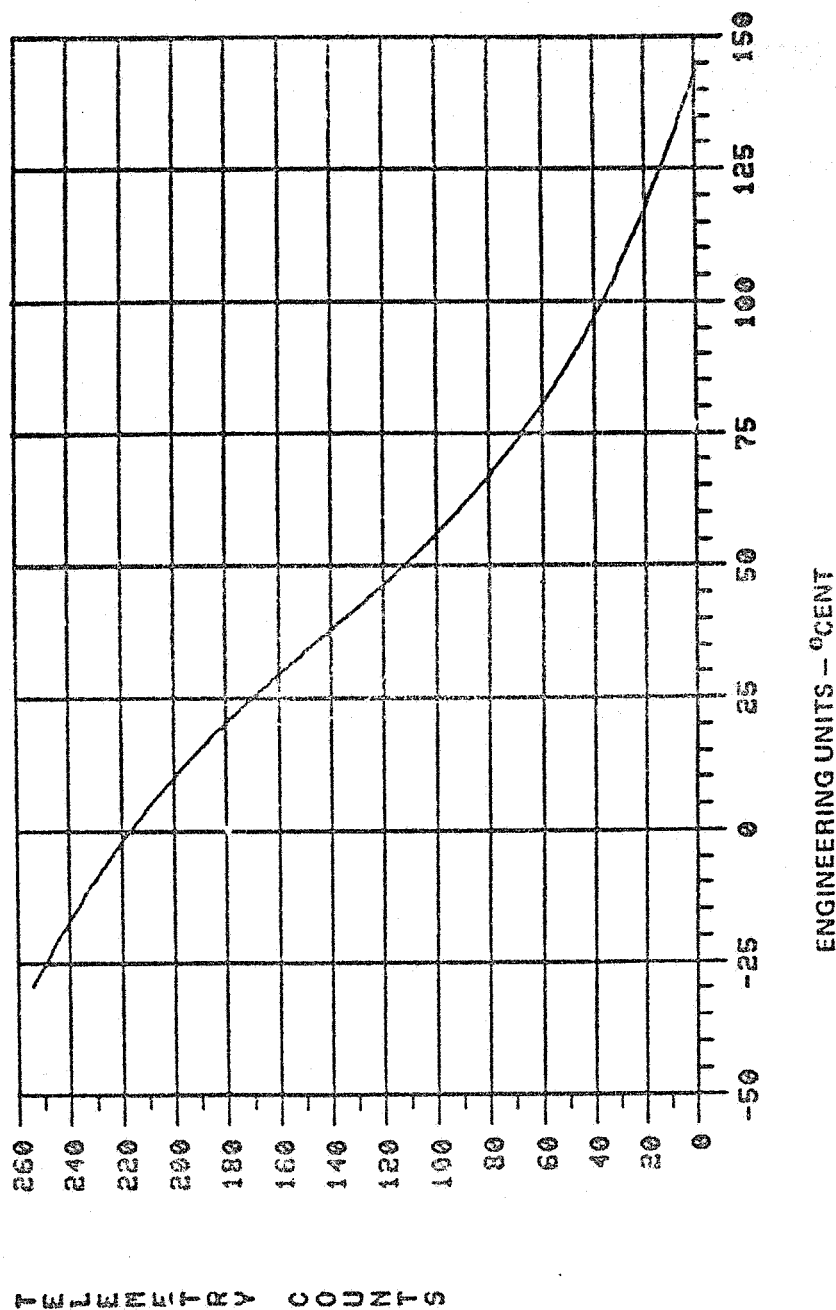
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COUNTS VS ENGINEERING UNITS FOR ZTRMB2B4



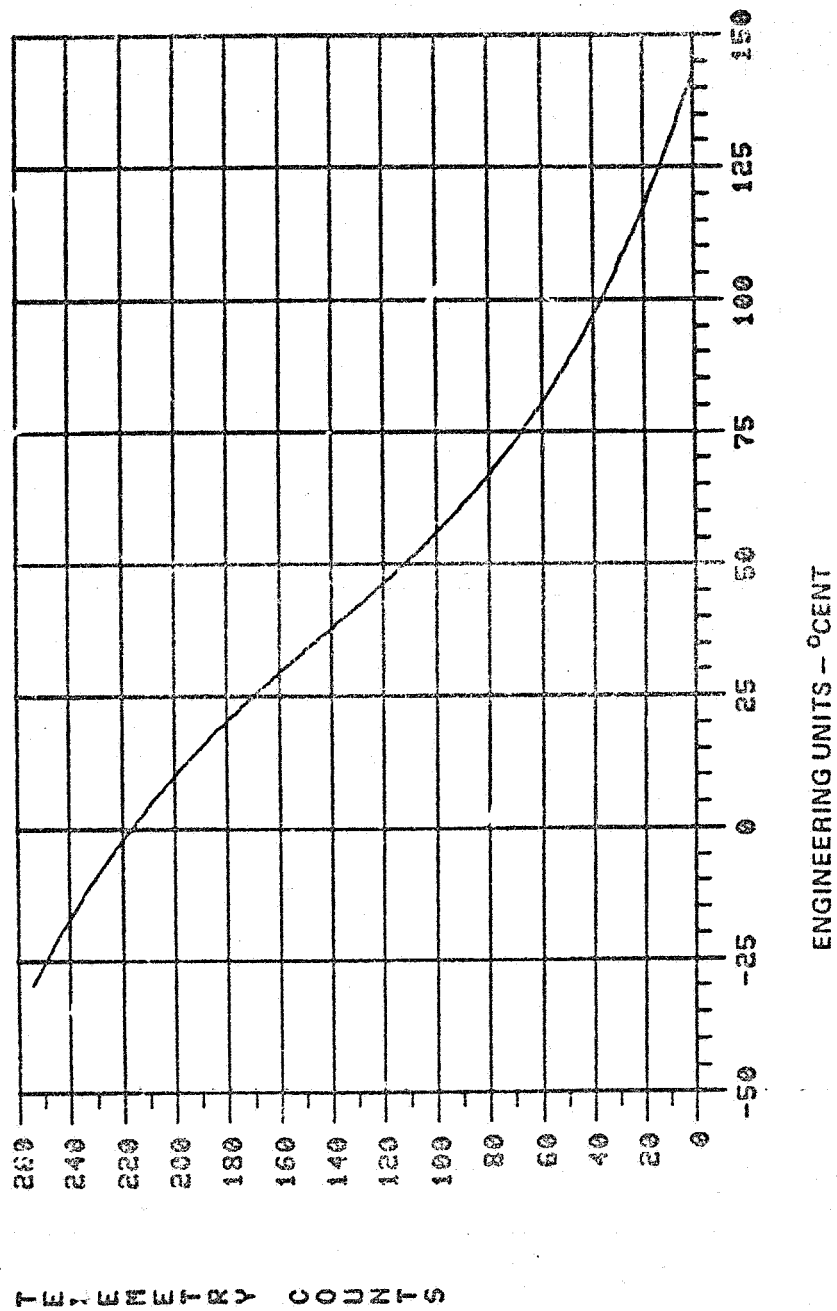
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COUNTS VS ENGINEERING UNITS FOR ZTRAC1C3



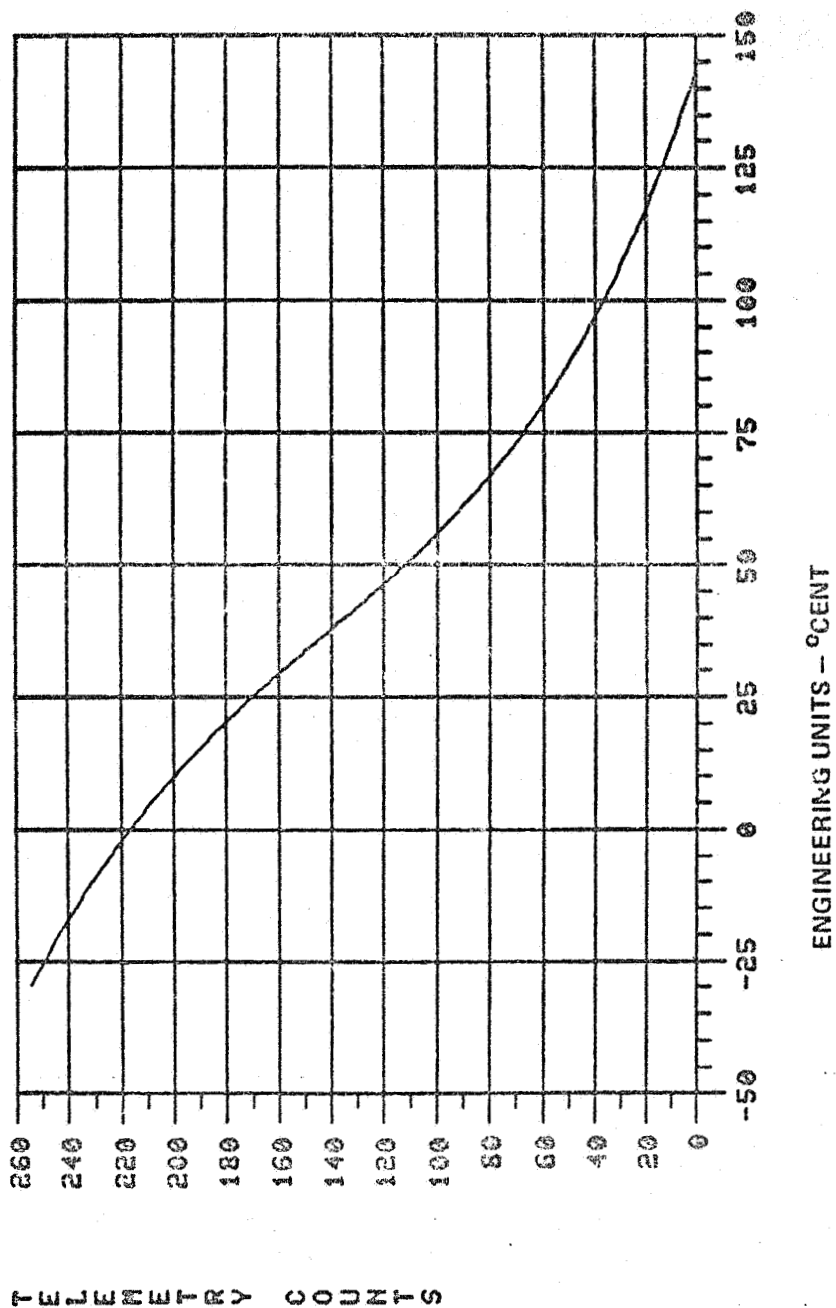
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COUNTS VS ENGINEERING UNITS FOR 2TRMC2C4



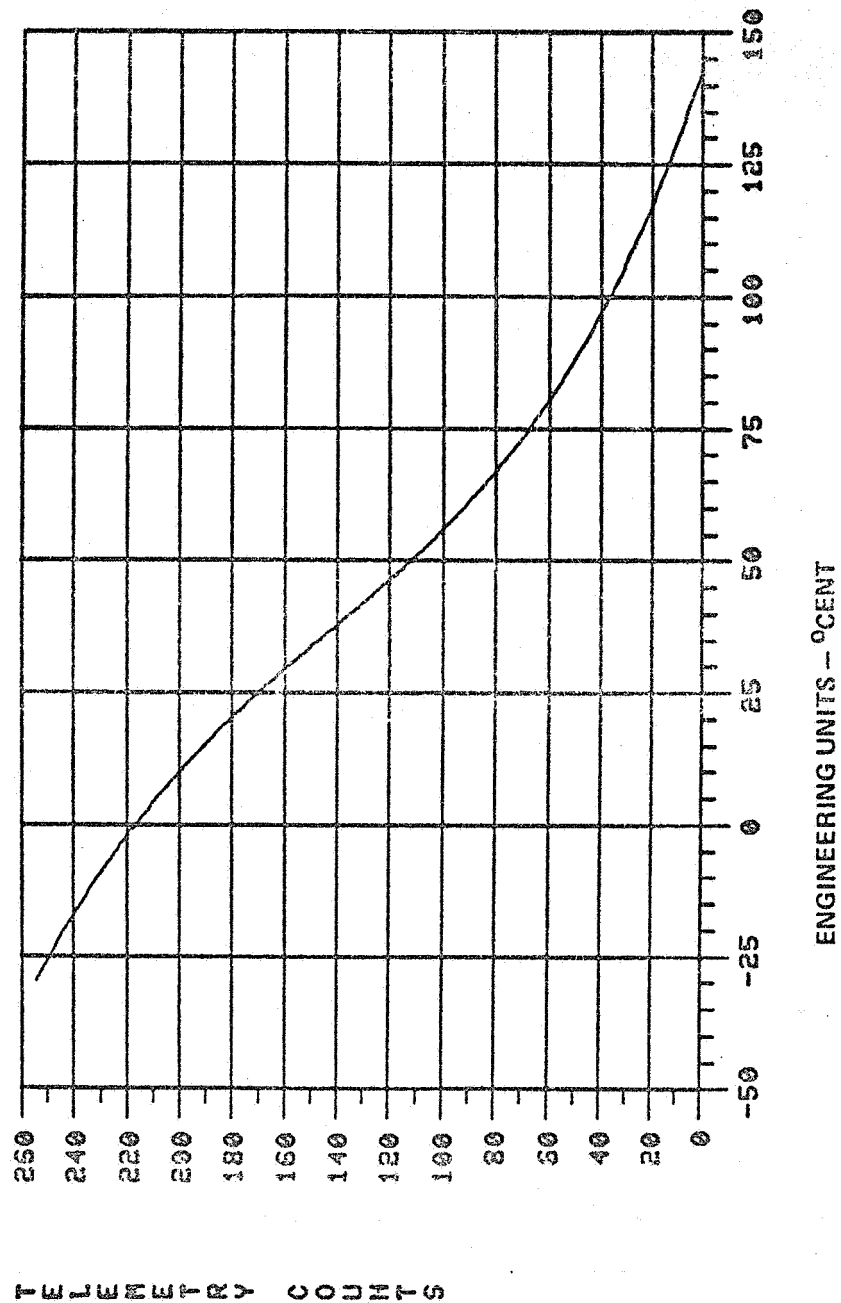
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COUNTS VS ENGINEERING UNITS FOR ZTRMD1D3



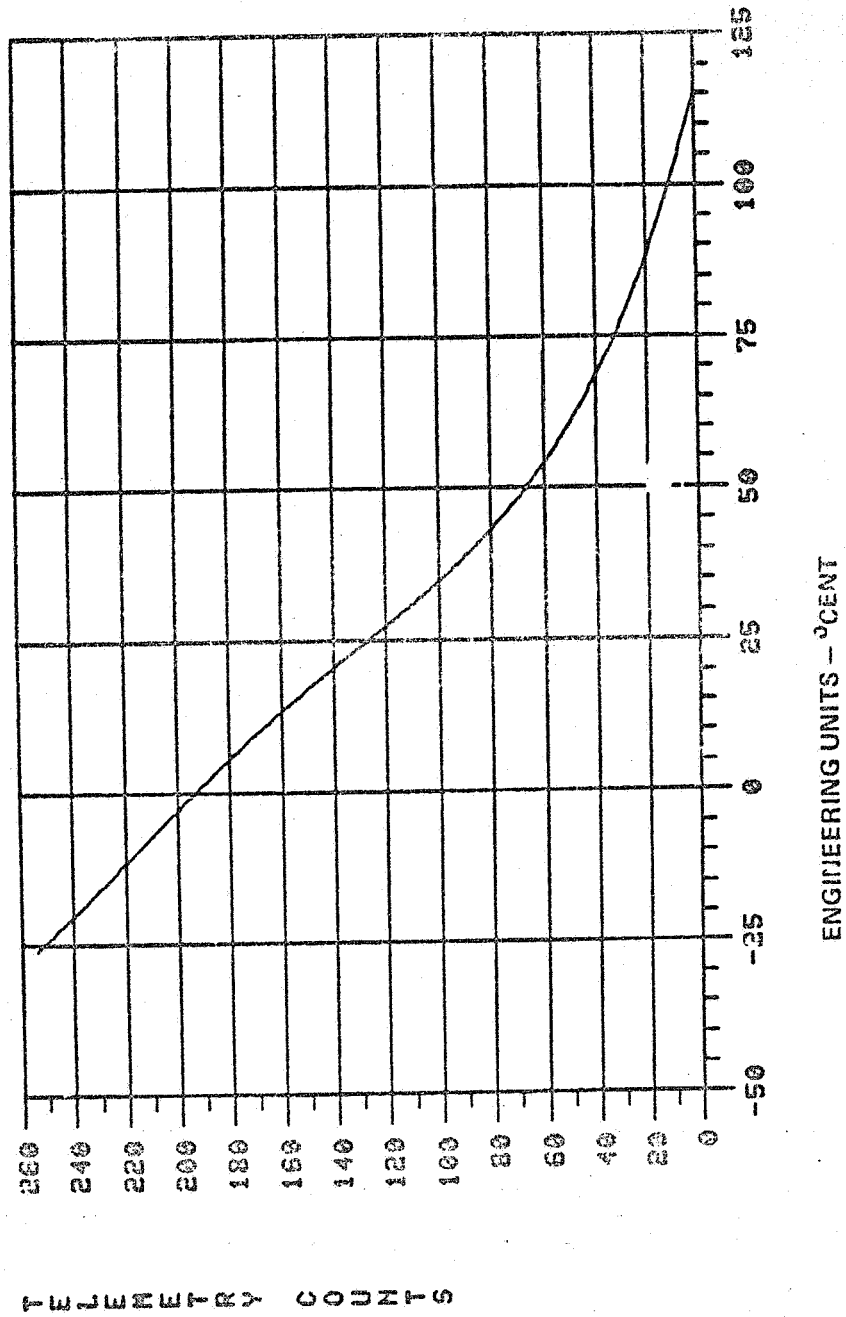
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COUNTS VS ENGINEERING UNITS FOR ZTRND2D4



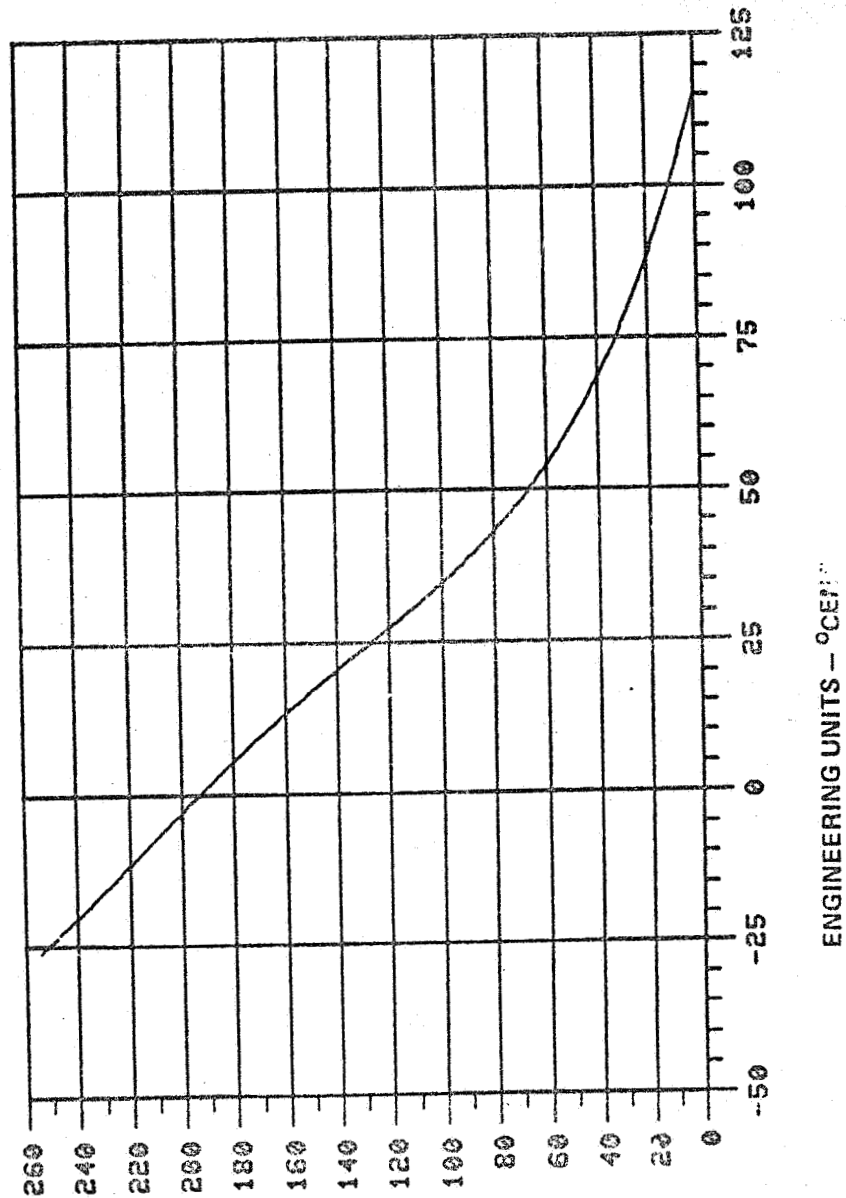
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COUNTS VS ENGINEERING UNITS FOR ZTTANK1



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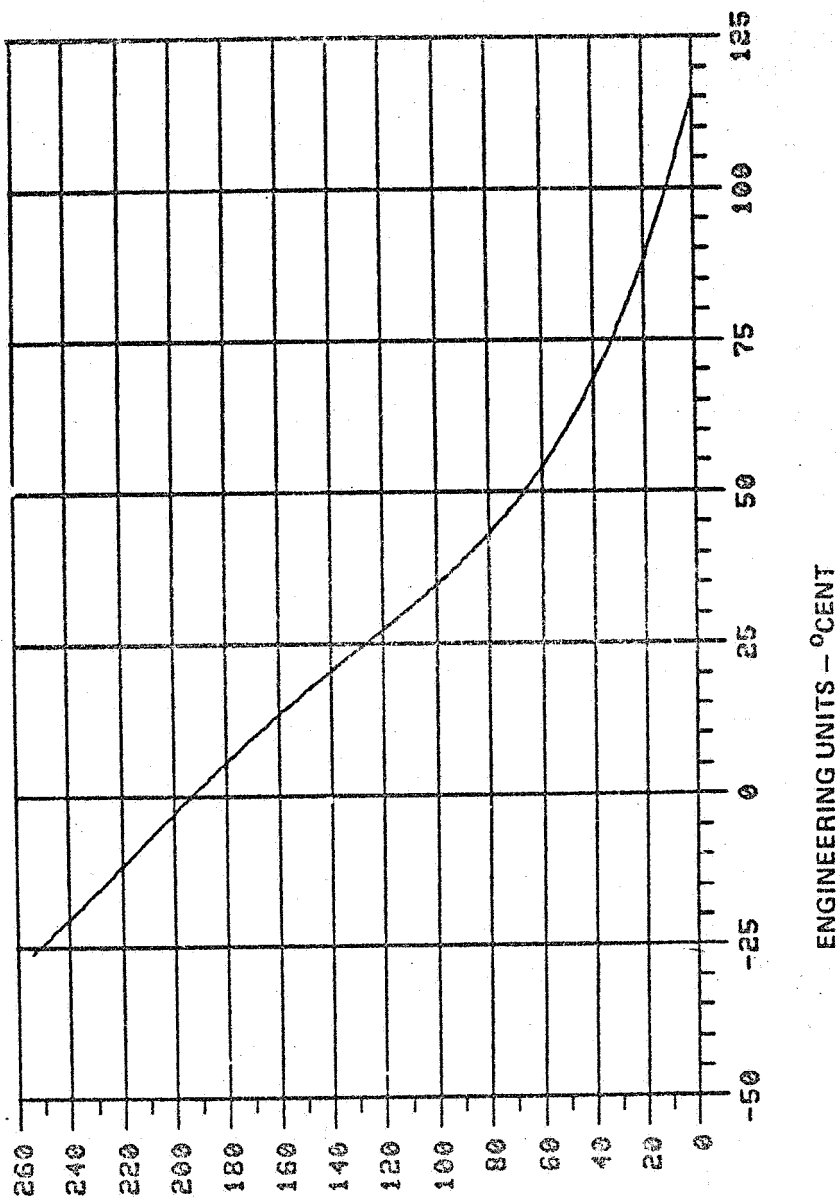
COUNTS VS ENGINEERING UNITS FOR ZTTANK2



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR ZTTANK3



TELEMETRY COUNTS

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APPENDIX A.8

SIGNAL CONDITIONING AND CONTROL UNIT (SC&CU) TELEMETRY CALIBRATION DATA

The calibration curve coefficients for each telemetry point are controlled in the data base. They are listed along with the unit section number where the sensor is located. Tables showing the coefficients may be obtained from the data base administrator. The tables show telemetry volts (counts) vs. engineering units.

LSD-WPC-263

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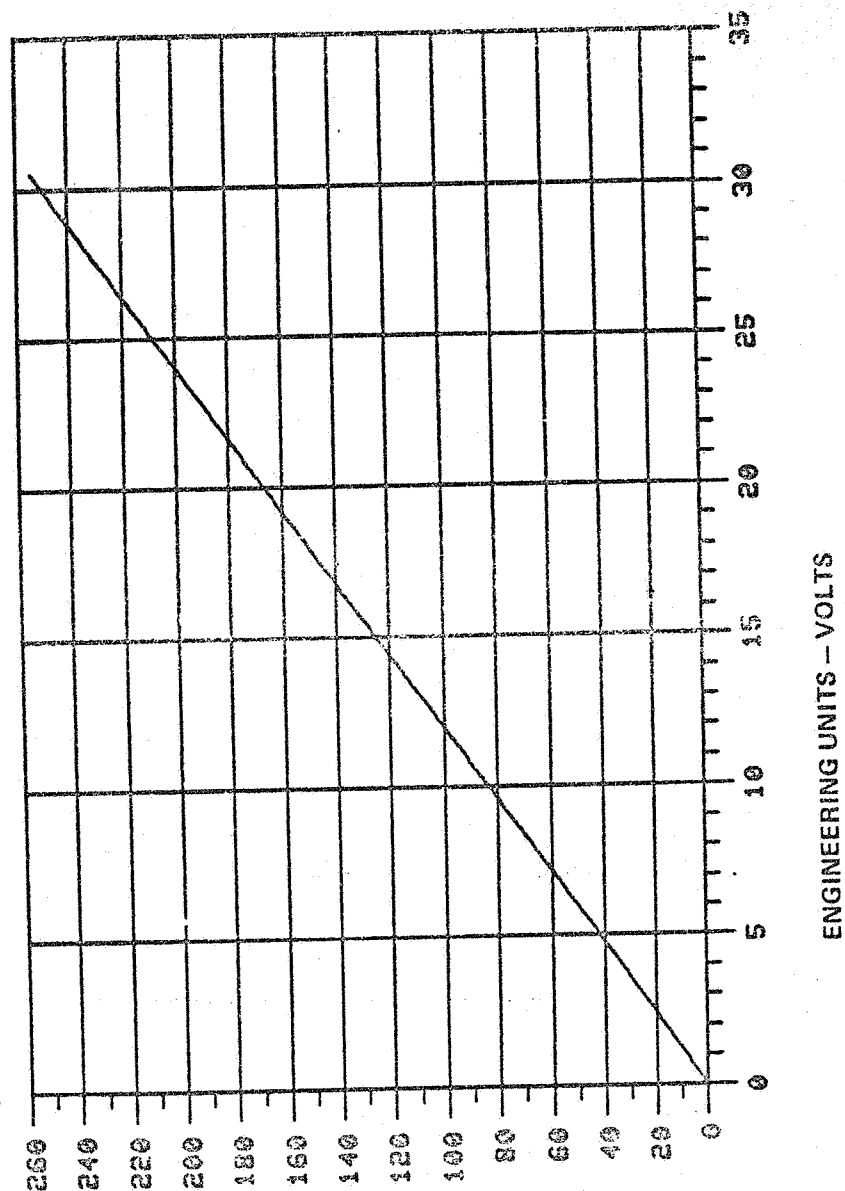
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: SCCU CONV. DEF.
: *****
:

POINT	U25VAPW	; SC & CU +25V A POWER in volts
COEFF	U25VAPW	, 0.0, 0.12
POINT	U25VBPW	; SC & CU +25V B POWER in volts
COEFF	U25VBPW	, 0.0, 0.12
POINT	U5VAPWR	; SC & CU +5V A POWER in volts
COEFF	U5VAPWR	, 0.0, 0.04
POINT	U5VAPWRO	; SCU A OFF in
COEFF	U5VAPWRO	, 0.0, 0.04
POINT	U5VBPWR	; SC & CU +5V B POWER in volts
COEFF	U5VBPWR	, 0.0, 0.04
POINT	U5VBPWRO	; SCU B OFF in
COEFF	U5VBPWRO	, 0.0, 0.04
POINT	UT1MMS	; SPACECRAFT STRUCTURE TEMP 1 in deg. centigrade
COEFF	UT1MMS	, .1005E+3, -.2128E+1, .2547E-1, -.1777E-3, .6155E-6, -.8437E-9
POINT	UT2MMS	; SPACECRAFT STRUCTURE TEMP 2 in deg. centigrade
COEFF	UT2MMS	, .1005E+3, -.2128E+1, .2547E-1, -.1777E-3, .6155E-6, -.8437E-9
POINT	UT3MMS	; SPACECRAFT STRUCTURE TEMP 3 in deg. centigrade
COEFF	UT3MMS	, .1005E+3, -.2128E+1, .2547E-1, -.1777E-3, .6155E-6, -.8437E-9
POINT	UT4MMS	; SPACECRAFT STRUCTURE TEMP 4 in deg. centigrade
COEFF	UT4MMS	, .1005E+3, -.2128E+1, .2547E-1, -.1777E-3, .6155E-6, -.8437E-9
POINT	UT5MMS	; SPACECRAFT STRUCTURE TEMP 5 in deg. centigrade
COEFF	UT5MMS	, .1005E+3, -.2128E+1, .2547E-1, -.1777E-3, .6155E-6, -.8437E-9
POINT	UT6MMS	; SPACECRAFT STRUCTURE TEMP 6 in deg. centigrade
COEFF	UT6MMS	, .1005E+3, -.2128E+1, .2547E-1, -.1777E-3, .6155E-6, -.8437E-9
POINT	UTRIUA	; RIU 04A TEMPERATURE in deg. centigrade
COEFF	UTRIUA	, 123.41, -2.073, .02265739, -.0001514293, .5173663E-06, -.7163077E-09
POINT	UTRIUB	; RIU 04B TEMPERATURE in deg. centigrade
COEFF	UTRIUB	, 123.41, -2.073, .02265739, -.0001514293, .5173663E-06, -.7163077E-09
POINT	UTSCCU	; SC & CU TEMPERATURE in deg. centigrade
COEFF	UTSCCU	, 123.41, -2.073, .02265739, -.00015143, .517366E-6, -.71631E-9

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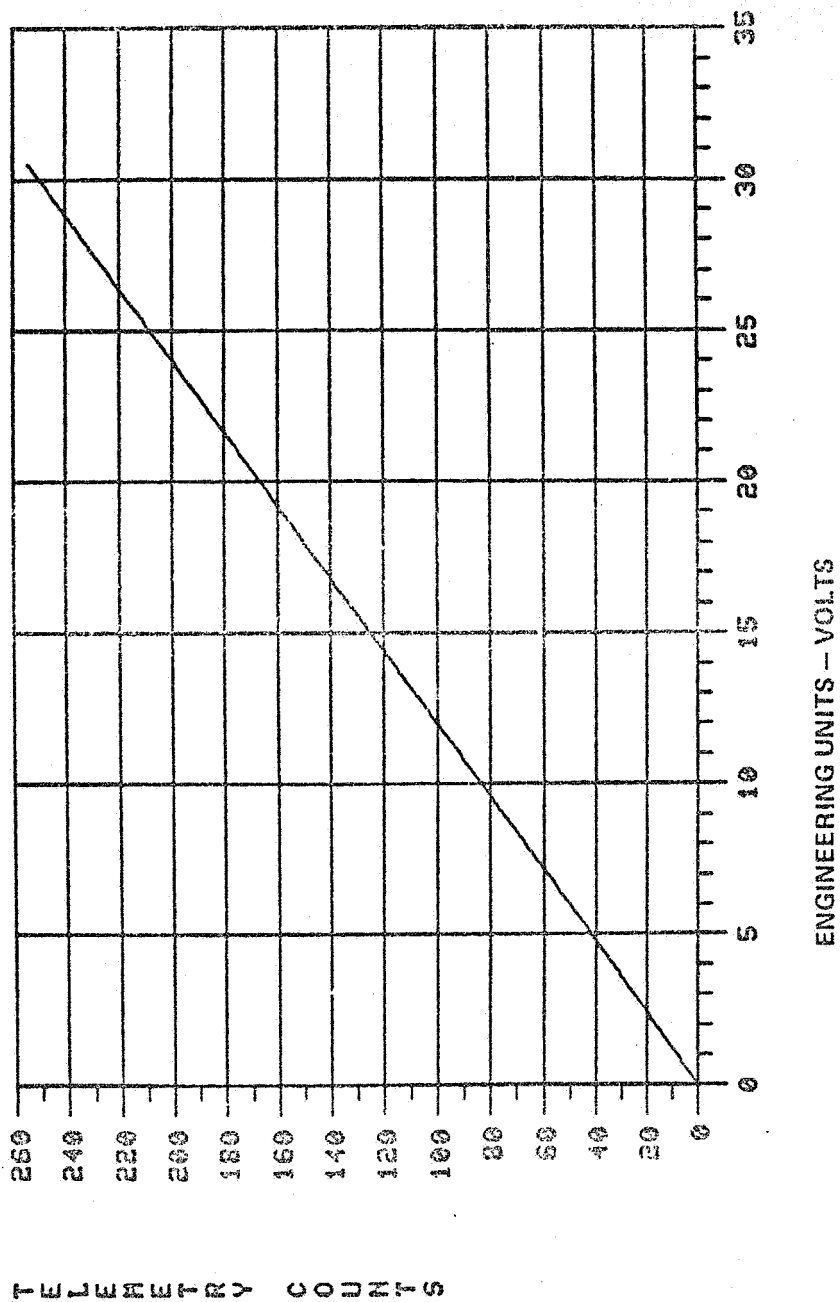
COUNTS VS ENGINEERING UNITS FOR U25UAPU



TELEMETRY COUNTS

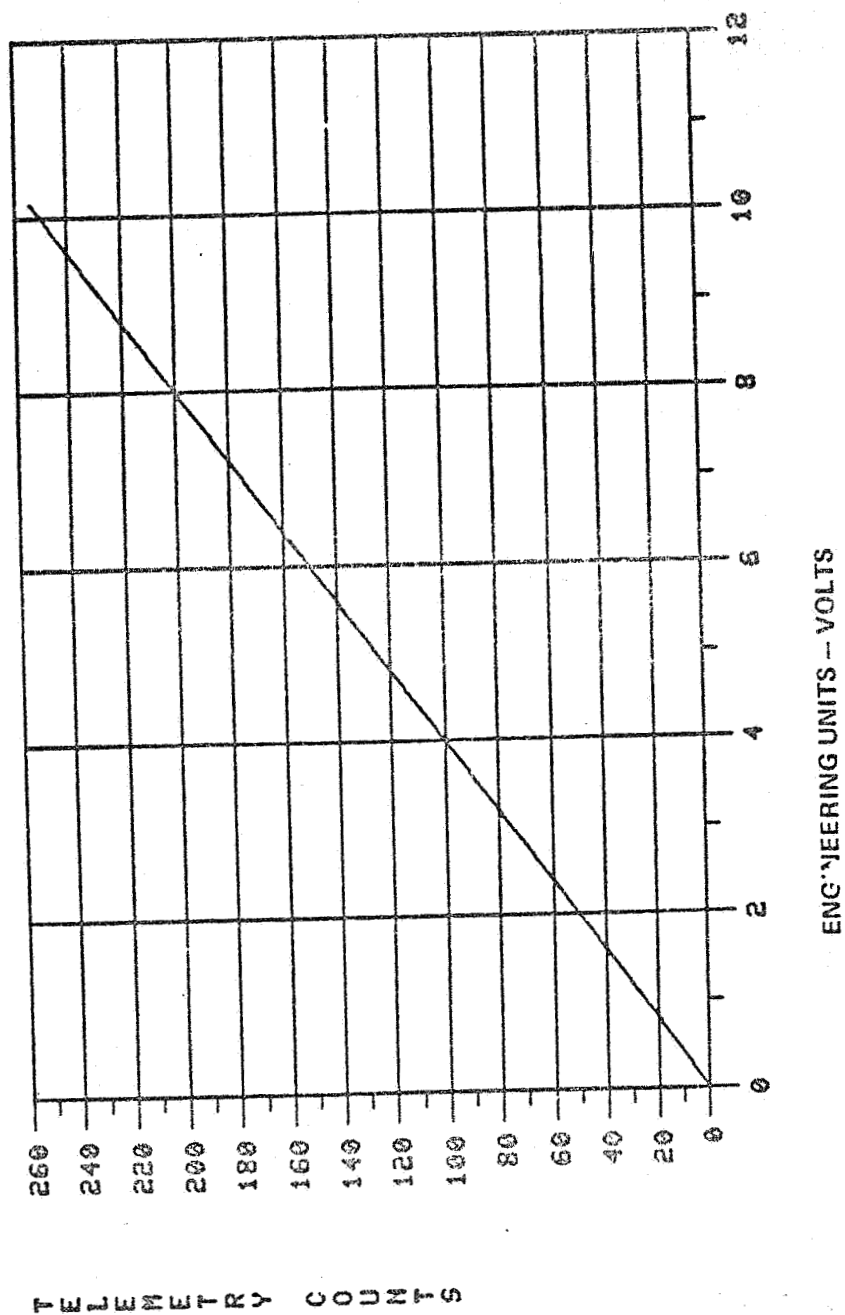
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COUNTS VS ENGINEERING UNITS FOR U25UBPU



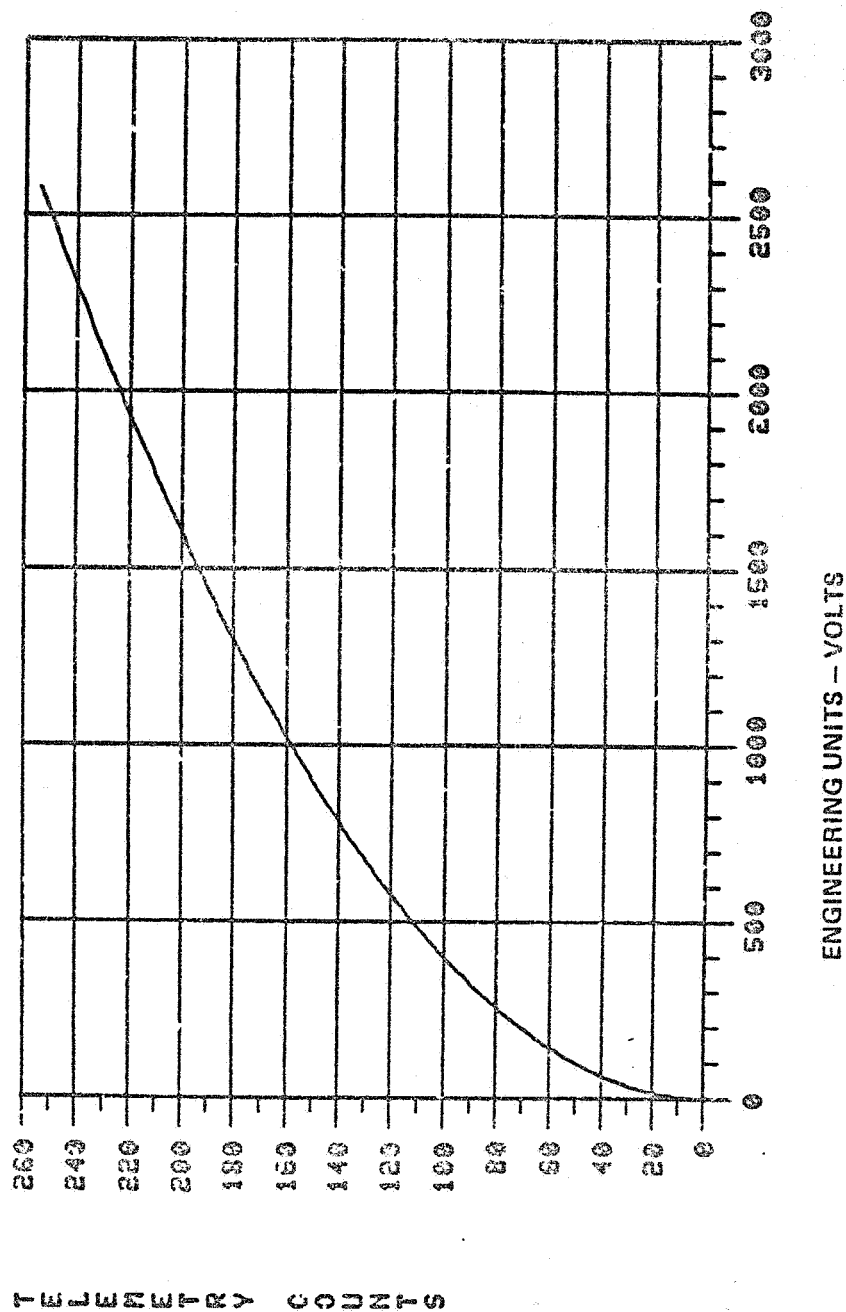
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COUNTS VS ENGINEERING UNITS FOR USVAPUR



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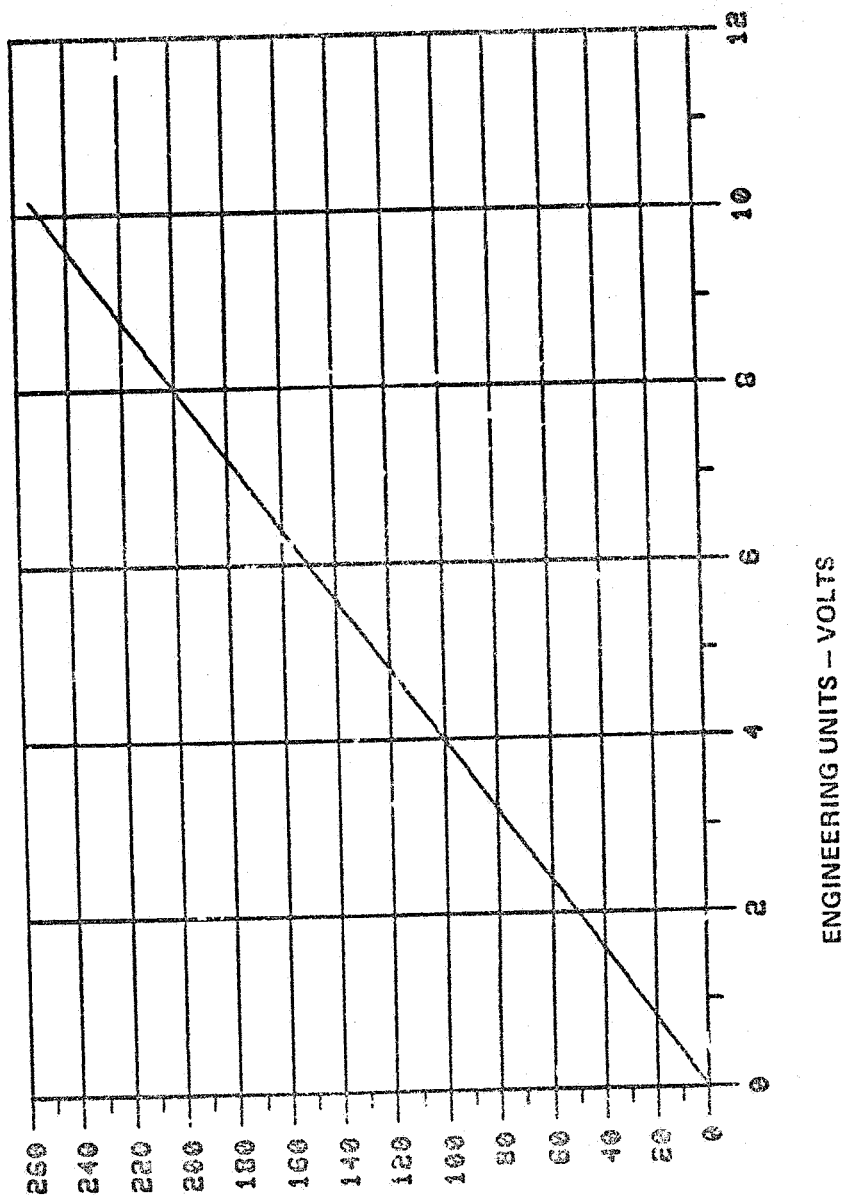
COUNTS VS ENGINEERING UNITS FOR USVAPURO



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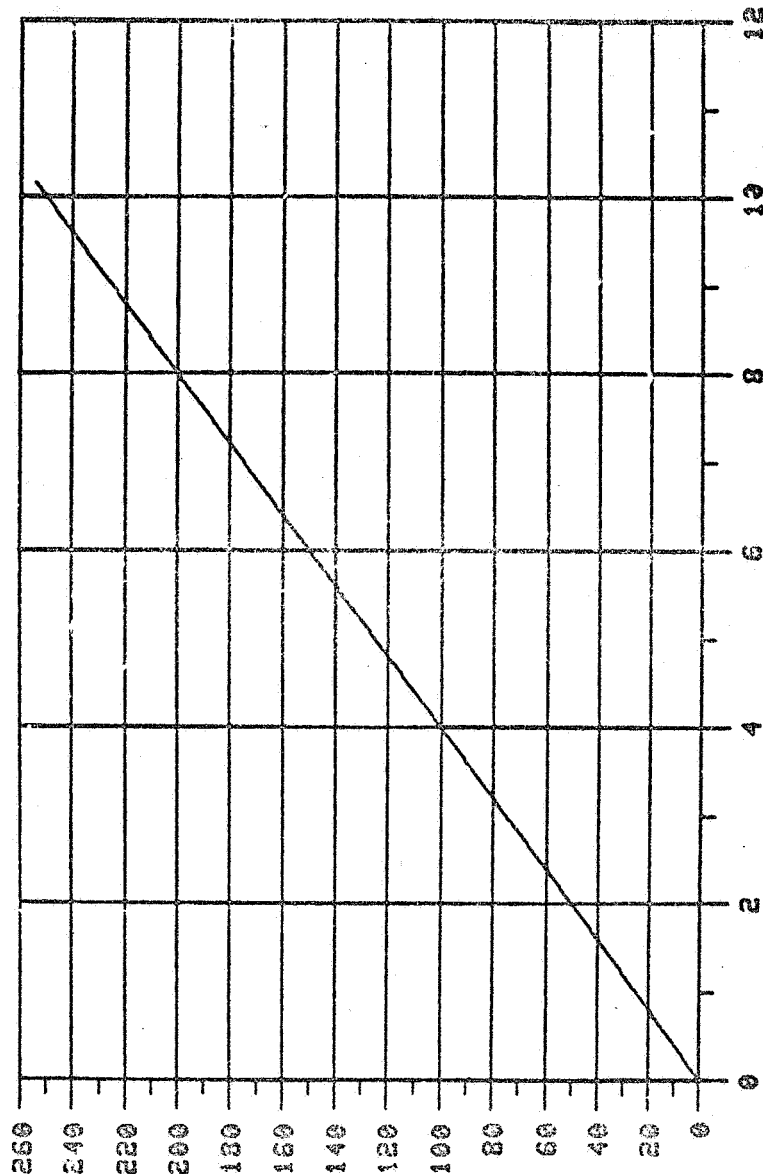
COUNTS VS ENGINEERING UNITS FOR USUAPUR



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR USVBPUR0

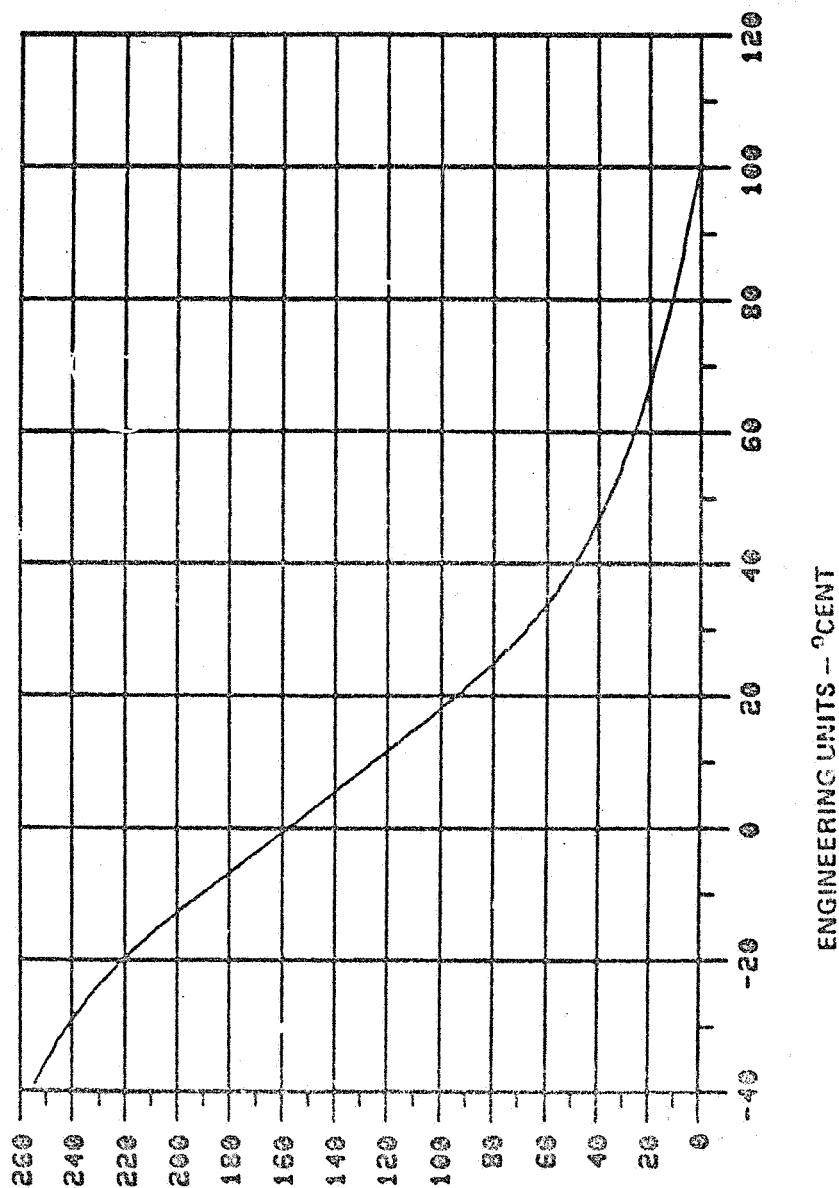


ENGINEERING UNITS - VOLTS

PULSE RATE - COUNTS

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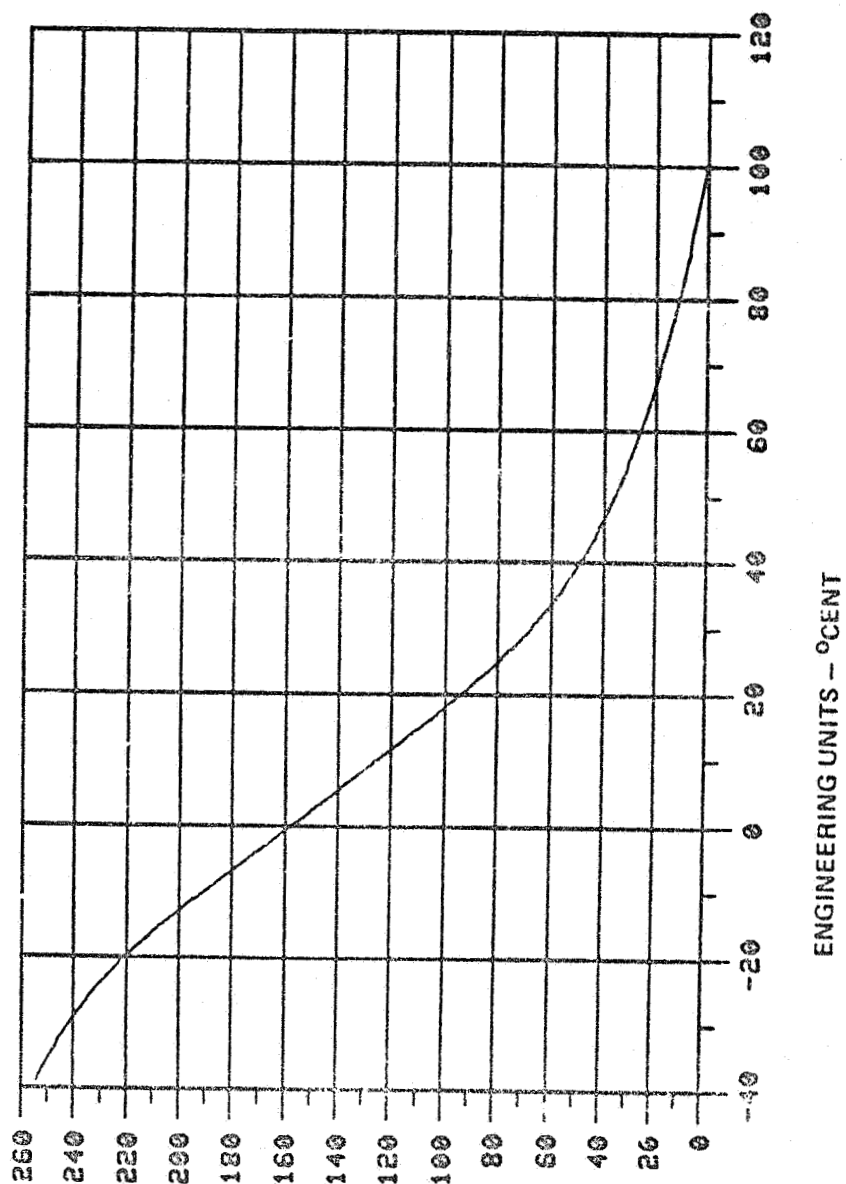
COUNTS VS ENGINEERING UNITS FOR UTINMS



TELEMETRY COUNTS

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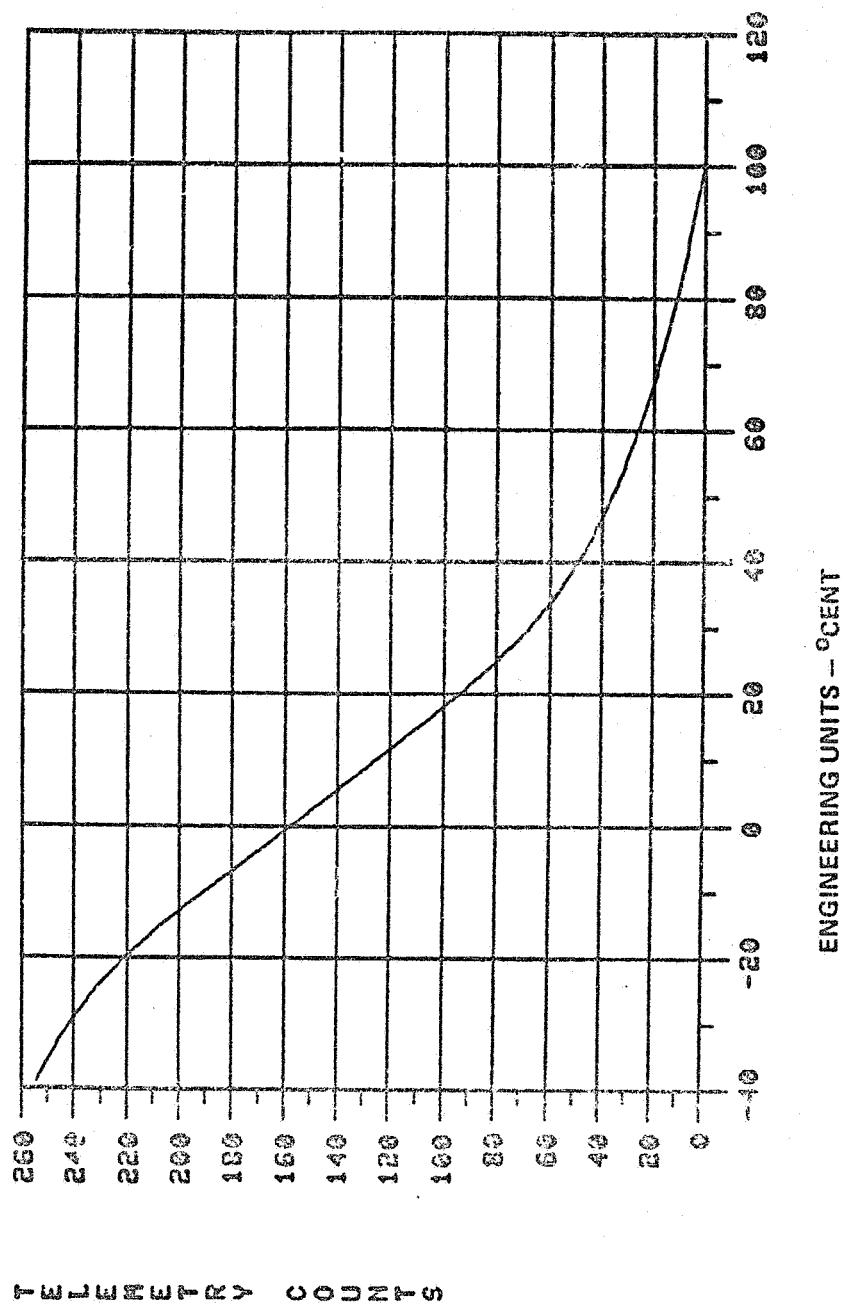
COUNTS VS ENGINEERING UNITS FOR UTMMS



TELEMETRY COUNTS

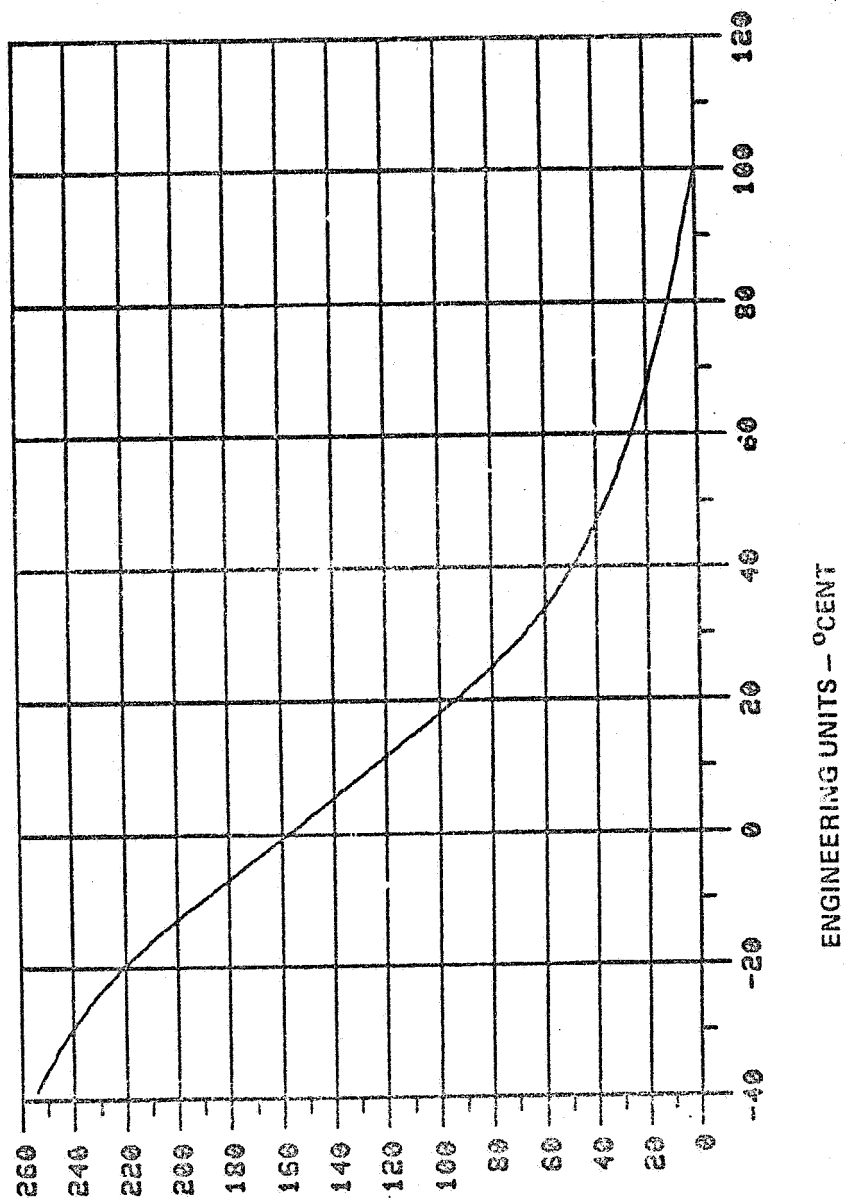
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COUNTS VS ENGINEERING UNITS FOR UTMMS



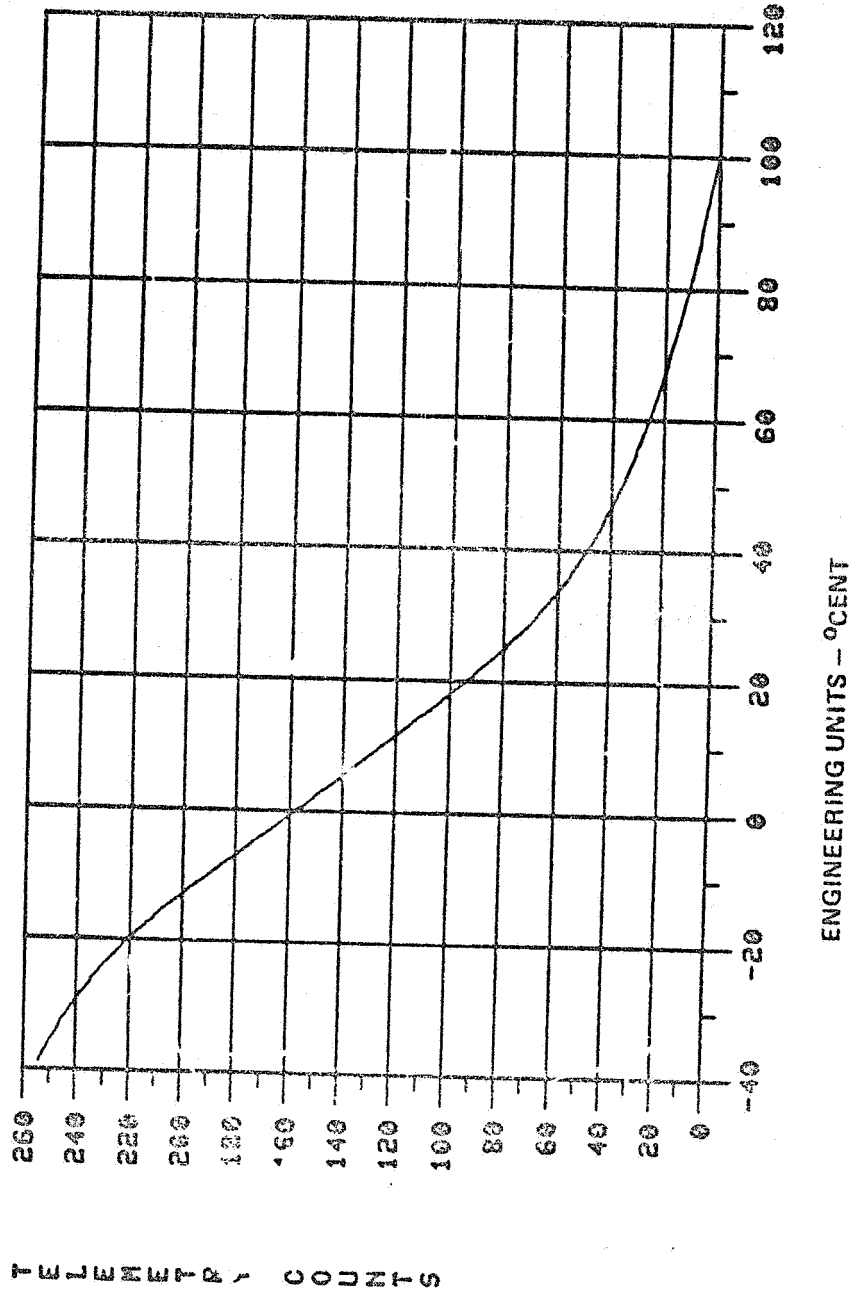
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COUNTS VS ENGINEERING UNITS FOR UT4MMS



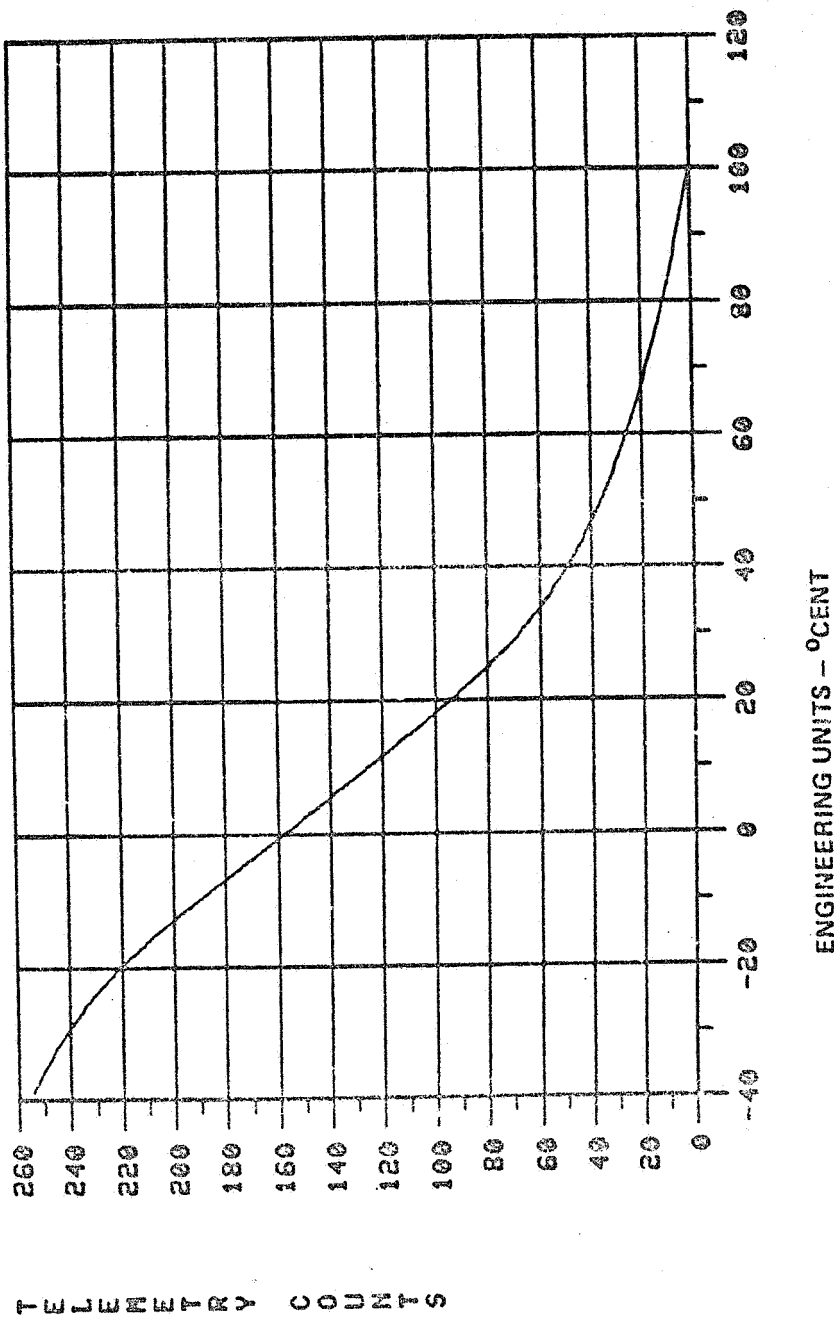
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COUNTS VS ENGINEERING UNITS FOR UTSMMS



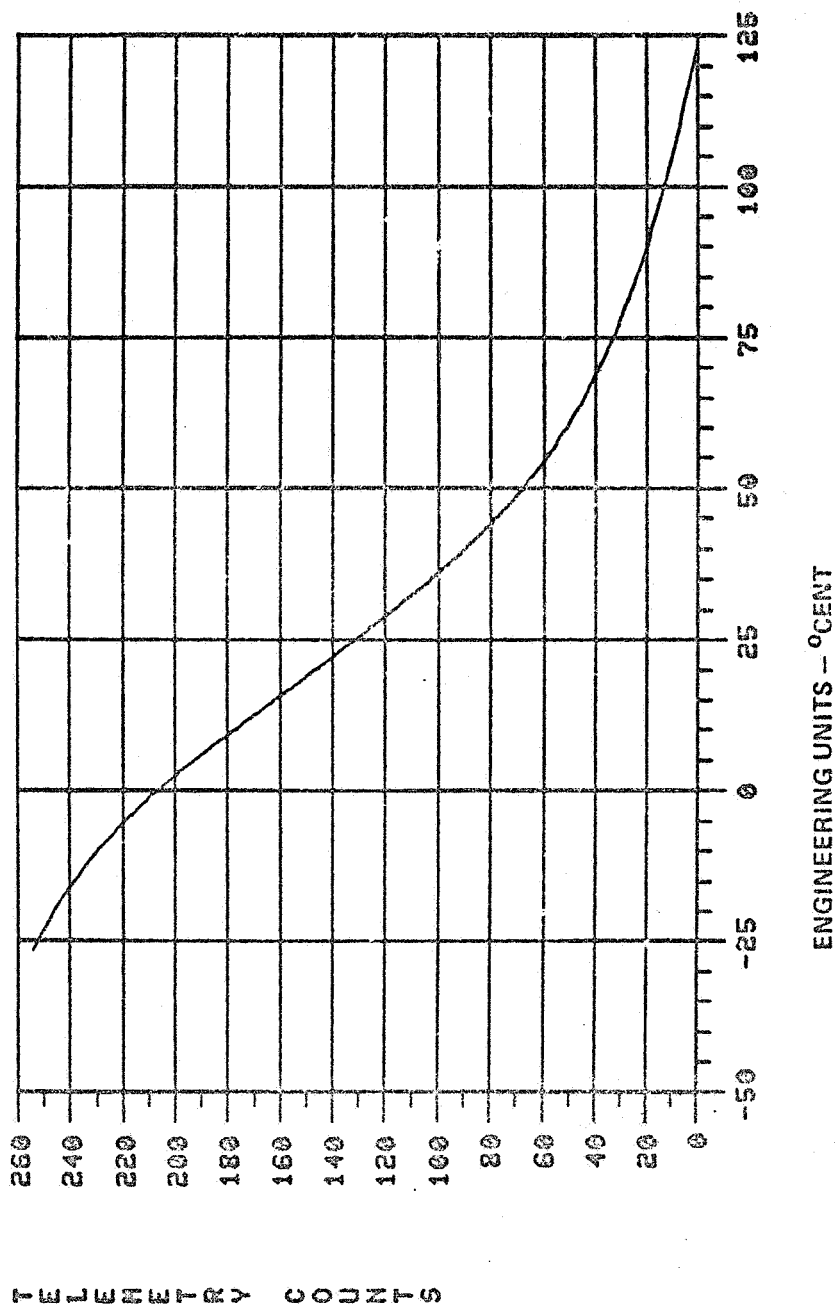
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COUNTS VS ENGINEERING UNITS FOR UT6HMS



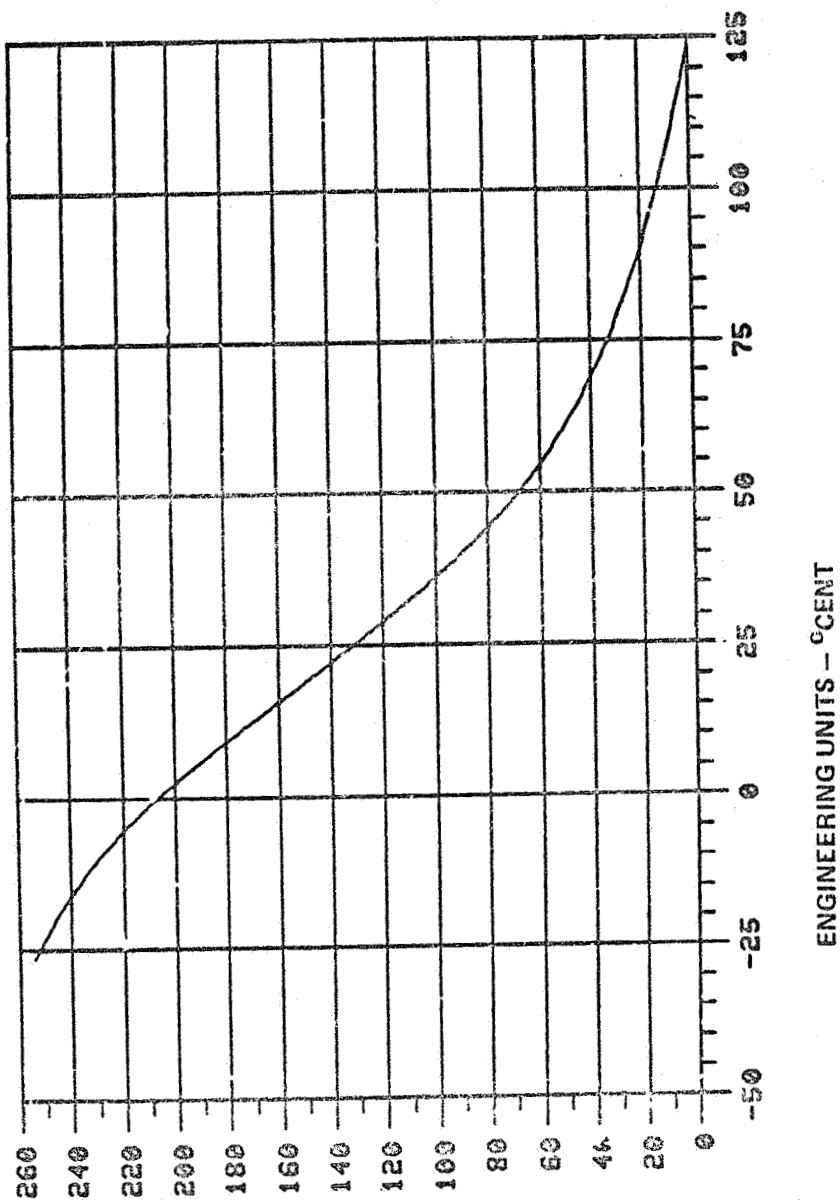
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COUNTS VS ENGINEERING UNITS FOR UTRIUA



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COUNTS VS ENGINEERING UNITS FOR UTRIUB

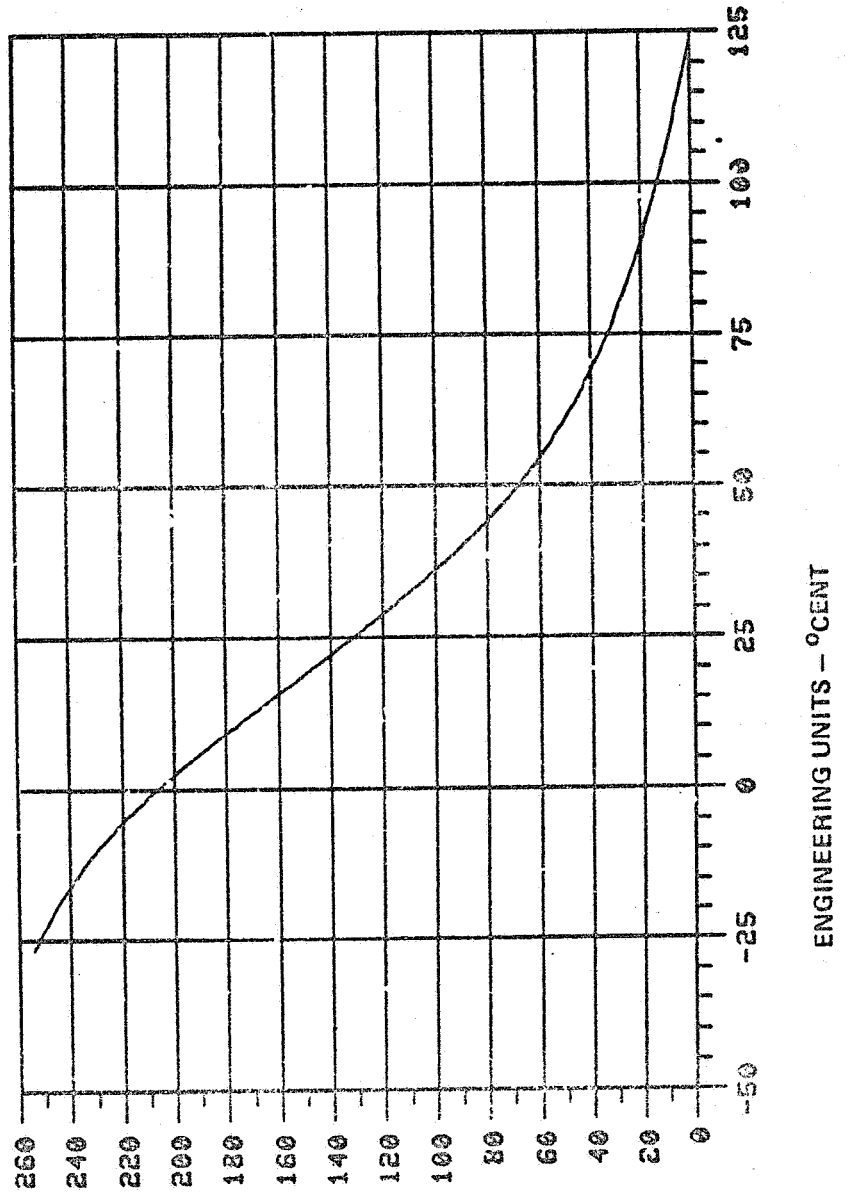


TELEMETRY COUNTS

ENGINEERING UNITS - °CENT

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COUNTS VS ENGINEERING UNITS FOR UTSCCU



TELEMETRY COUNTS

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SVS-10266/34
Appendix A
June 1962

APPENDIX A.9

MODULAR POWER SYSTEM (MPS) TELEMETRY CALIBRATION DATA

The calibration curve coefficients for each telemetry point are controlled in the data base. They are listed along with the unit section number where the sensor is located. Tables showing the coefficients may be obtained from the data base administrator. The tables show telemetry volts (counts) vs. engineering units.

LSD-WPC-263

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MPS CONV. DEF.

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; PM POINT DEF.
POINT PIACS ; MACS PM CURRENT in
COEFF PIACS , 0.0,0.08
POINT PIB1HI ; BATT 1 HIGH CURRENT in
COEFF PIB1HI , -50.0,0.4
POINT PIB1LO ; BATT 1 LOW CURRENT in
COEFF PIB1LO , 0.0,0.0119522
POINT PIB2HI ; BATT 2 HIGH CURRENT in
COEFF PIB2HI , -50.0,0.4
POINT PIB2LO ; BATT 2 LOW CURRENT in
COEFF PIB2LO , 0.0,0.012
POINT PIB3HI ; BATT 3 HIGH CURRENT in
COEFF PIB3HI , -50.0,0.4
POINT PIB3LO ; BATT 3 LOW CURRENT in
COEFF PIB3LO , 0.0,0.0119522
POINT PICDH ; CDH CURRENT in
COEFF PICDH , 0.0,0.08
POINT PIIMHI ; INSTRUMENTS HIGH CURRENT in
COEFF PIIMHI , 0.0,0.5
POINT PIIMLO ; INSTRUMENT LOW CURRENT in
COEFF PIIMLO , 0.0,0.196078
POINT PISA1 ; CS 1 ARRAY/GND PWR CURRENT in
COEFF PISA1 , 0.0,0.2
POINT PISA2 ; CS 2 ARRAY/GND PWR CURRENT in
COEFF PISA2 , 0.0,0.199203
POINT PISCCU ; SCCU MPS CURRENT in
COEFF PISCCU , 0.0,0.08
POINT PITL1 ; TOTAL LOAD CURRENT 1 in
COEFF PITL1 , 0.0,0.600
POINT PITL2 ; TOTAL LOAD CURRENT 2 in
COEFF PITL2 , 0.0,0.600
POINT PITL3 ; TOTAL LOAD CURRENT 3 in
COEFF PITL3 , 0.0,0.600
POINT PITL4 ; TOTAL LOAD CURRENT 4 in
COEFF PITL4 , 0.0,0.600
POINT PTBAT1P ; BATT 1 TEMP PRI in deg. centigrade
COEFF PTBAT1P , 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10
POINT PTBAT1R ; BATT 1 TEMP RED in deg. centigrade
COEFF PTBAT1R , 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10
POINT PTBAT2P ; BATT 2 TEMP PRI in deg. centigrade
COEFF PTBAT2P , 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10
POINT PTBAT2R ; BATT 2 TEMP RED in deg. centigrade
COEFF PTBAT2R , 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10
POINT PTBAT3P ; BATT 3 TEMP PRI in deg. centigrade
COEFF PTBAT3P , 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10
POINT PTBAT3R ; BATT 3 TEMP RED in deg. centigrade
COEFF PTBAT3R , 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10
POINT PTBPA ; BPA TEMP in deg. centigrade
COEFF PTBPA , 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10

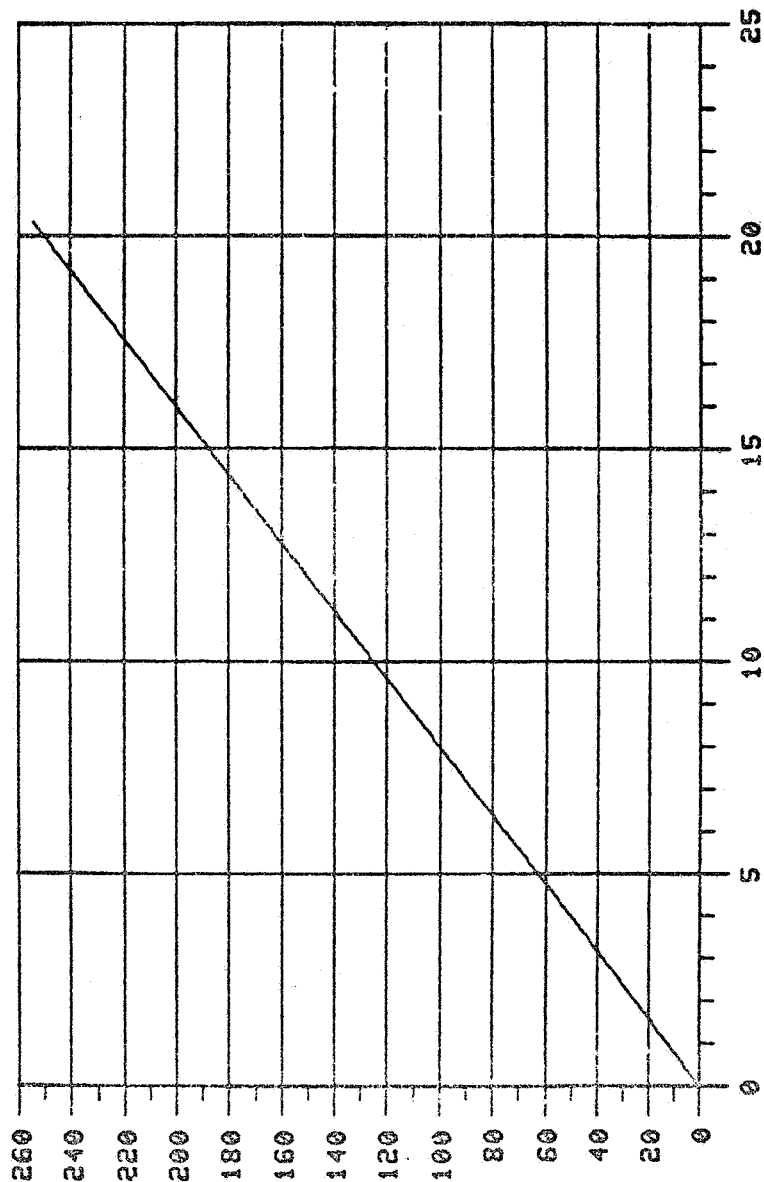
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POINT	PTMPS1	; MOD TEMP 1 in deg. centigrade
COEFF	PTMPS1	, 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10
POINT	PTMPS2	; MOD TEMP 2 in deg. centigrade
COEFF	PTMPS2	, 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10
POINT	PTMPS3	; MOD TEMP 3 in deg. centigrade
COEFF	PTMPS3	, 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10
POINT	PTMPS4	; MOD TEMP 4 in deg. centigrade
COEFF	PTMPS4	, 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10
POINT	PTPCU1	; PCU TEMP 1 in deg. centigrade
COEFF	PTPCU1	, 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10
POINT	PTPCU2	; PCU TEMP 2 in deg. centigrade
COEFF	PTPCU2	, 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10
POINT	PTPCU3	; PCU TEMP 3 in deg. centigrade
COEFF	PTPCU3	, 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10
POINT	PTSCA	; SCA TEMP in deg. centigrade
COEFF	PTSCA	, 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10
POINT	PTSPRU	; PRU TEMP in deg. centigrade
COEFF	PTSPRU	, 95.3429,-1.77372,.0186671,-1.2746E-4,4.6516E-7,-6.98108E-10
POINT	PV3RDE1	; BATT 1 3RD ELECTRODE VOLTAGE in volts
COEFF	PV3RDE1	, 0,2,0
POINT	PV3RDE2	; BATT 2 3RD ELECTRODE VOLTAGE in volts
COEFF	PV3RDE2	, 0,2,0
POINT	PV3RDE3	; BATT 3 3RD ELECTRODE VOLTAGE in volts
COEFF	PV3RDE3	, 0,2,0
POINT	PVBAT1	; BATT 1 VOLTAGE in
COEFF	PVBAT1	, 0,0,0.16
POINT	PVBAT2	; BATT 2 VOLTAGE in
COEFF	PVBAT2	, 0,0,0.16
POINT	PVBAT3	; BATT 3 VOLTAGE in
COEFF	PVBAT3	, 0,0,0.16
POINT	PVDIFB1	; BATT 1 DIFFERENTIAL VOLTAGE in
COEFF	PVDIFB1	, -700,5.6
POINT	PVDIFB2	; BATT 2 DIFFERENTIAL VOLTAGE in
COEFF	PVDIFB2	, -700,5.6
POINT	PVDIFB3	; BATT 3 DIFFERENTIAL VOLTAGE in
COEFF	PVDIFB3	, -700,5.6
POINT	PVLB	; LOAD BUS VOLTAGE in
COEFF	PVLB	, 0,0.16
POINT	PVSA	; SOLAR ARRAY BUS VOLTAGE in
COEFF	PVSA	, 0,0.5
POINT	PVSCACA	; SCA DC/DC CONV A VOLTAGE in
COEFF	PVSCACA	, 0,0.020
POINT	PVSCACB	; SCA DC/DC CONV B VOLTAGE in
COEFF	PVSCACB	, 0,0.020

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COUNTS US ENGINEERING UNITS FOR PIACS

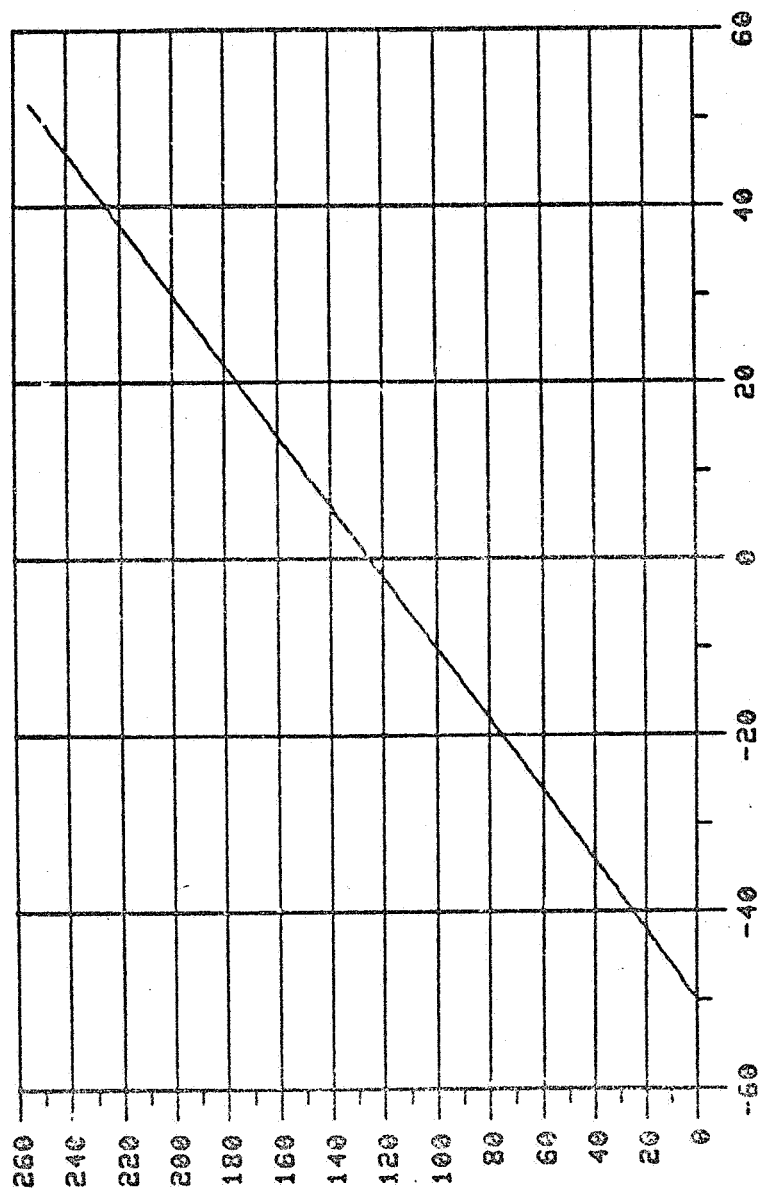


ENGINEERING UNITS - AMPS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR PIB1HI

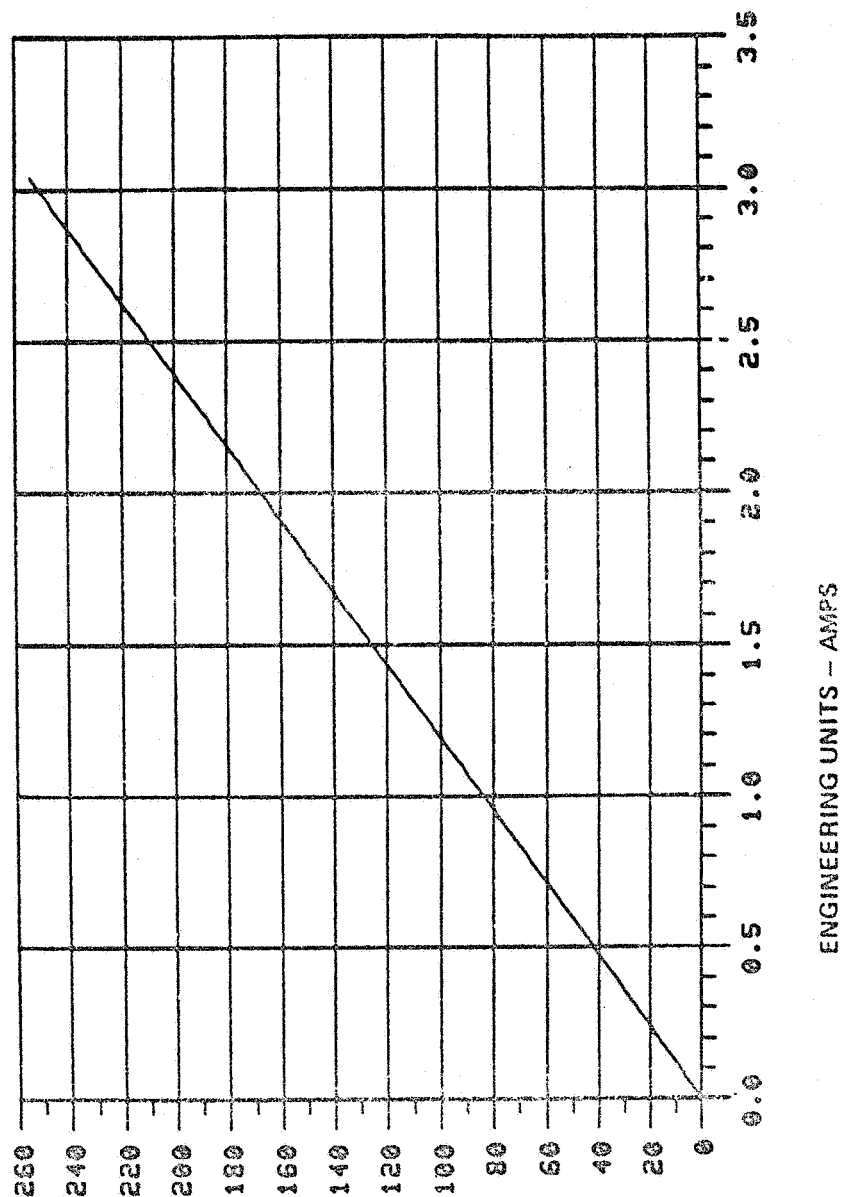


ENGINEERING UNITS - AMPS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR PIBILO

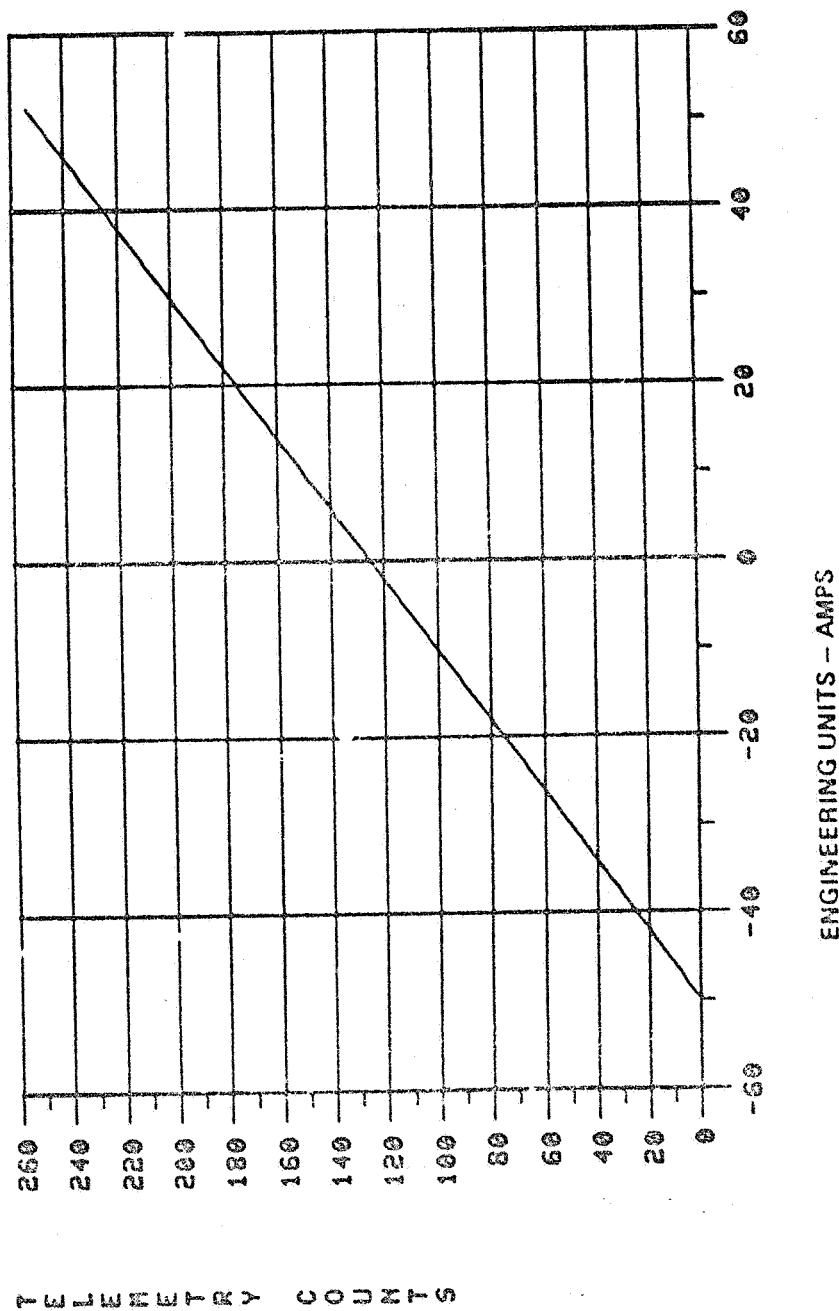


TELEMETRY COUNTS

ENGINEERING UNITS - AMPS

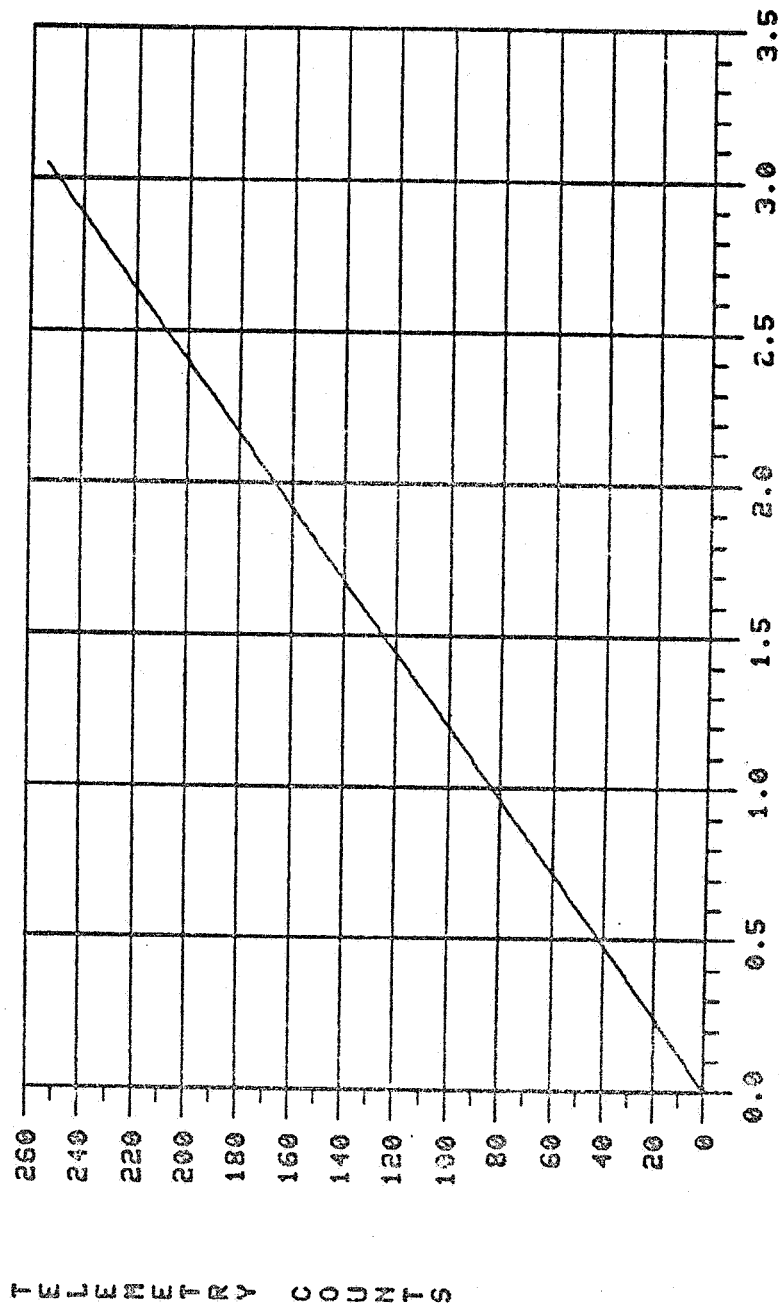
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COUNTS VS ENGINEERING UNITS FOR P102HI



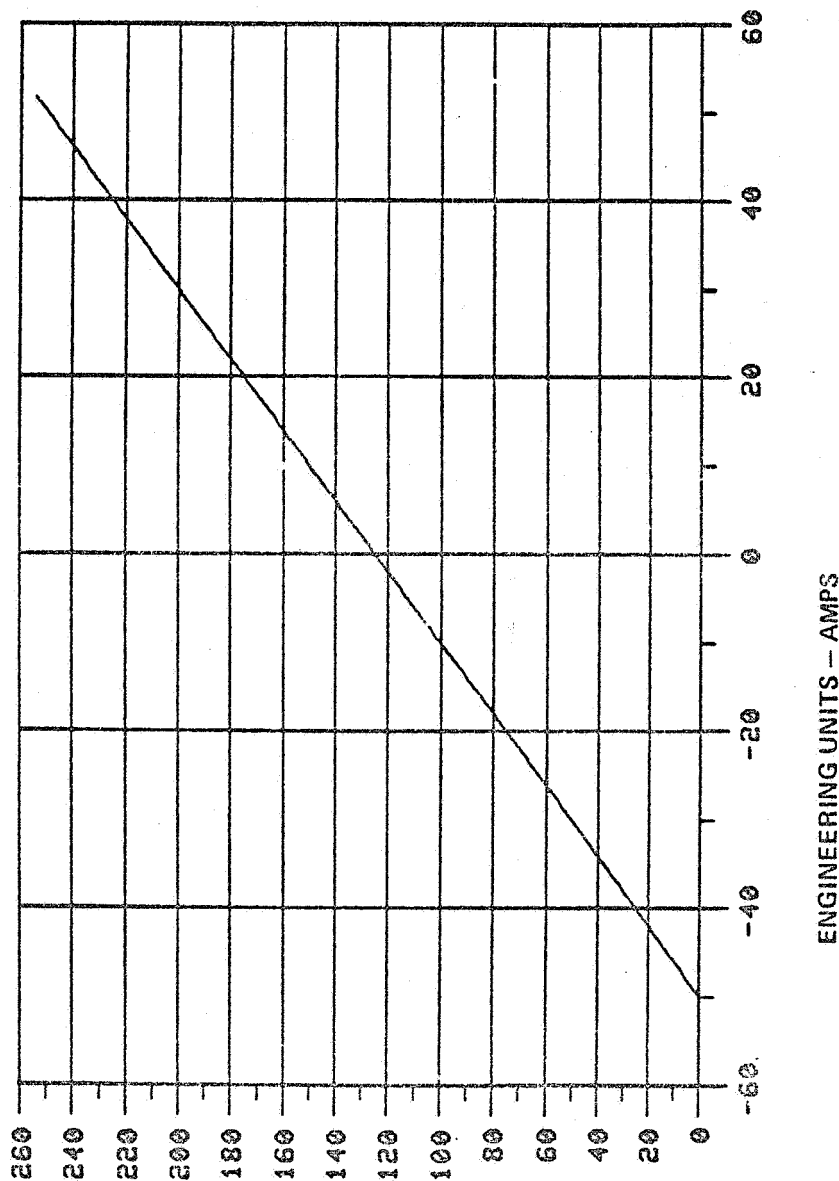
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COUNTS VS ENGINEERING UNITS FOR PIB2LO



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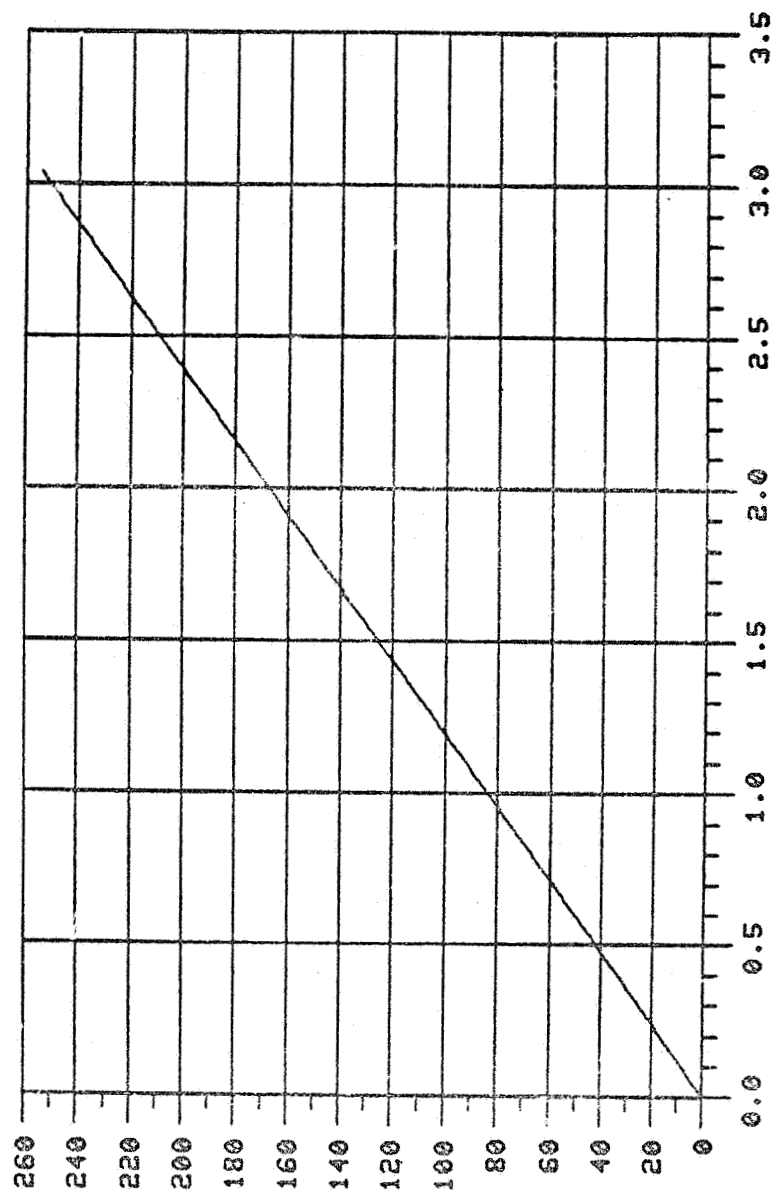
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TELEMETRY COUNTS

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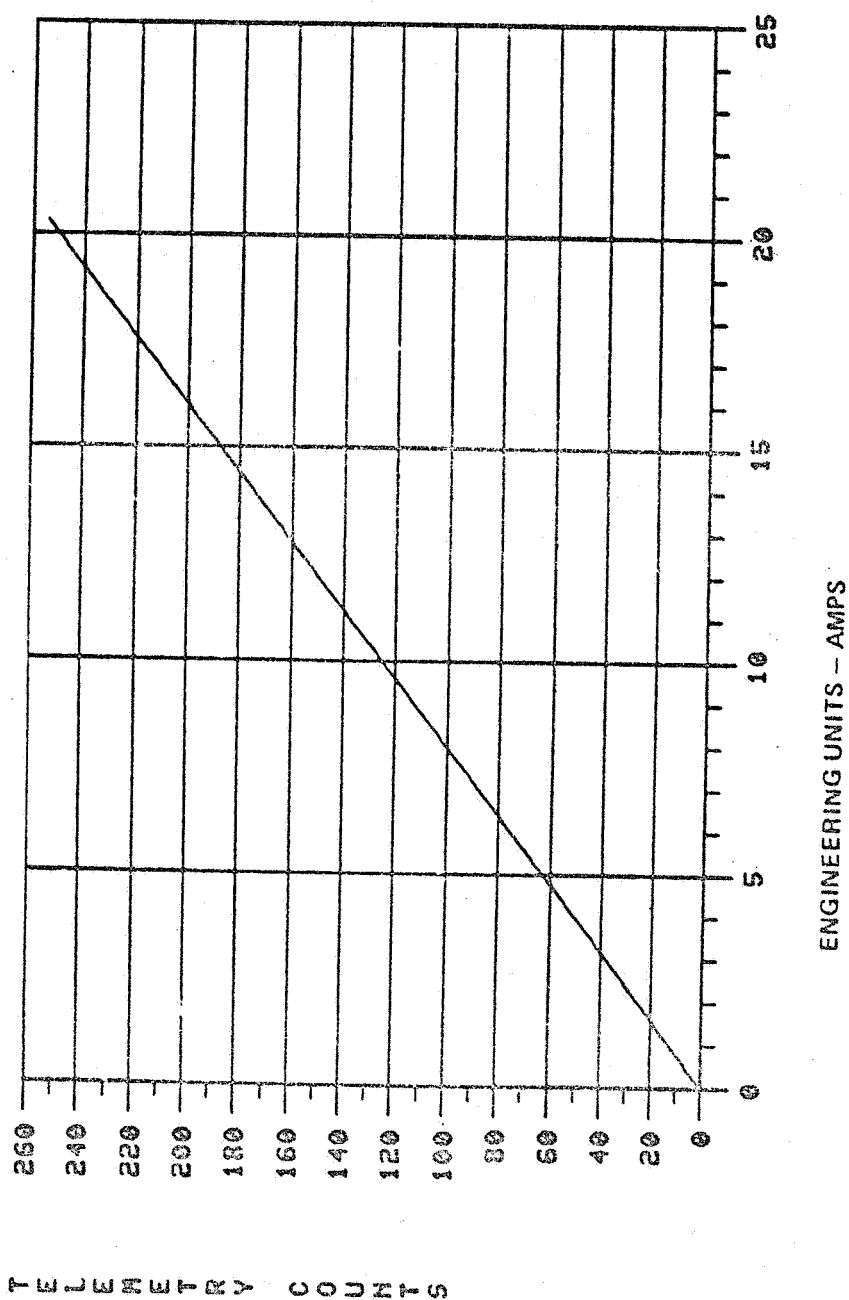


TELEMETRY COUNTS

ENGINEERING UNITS - AMPS

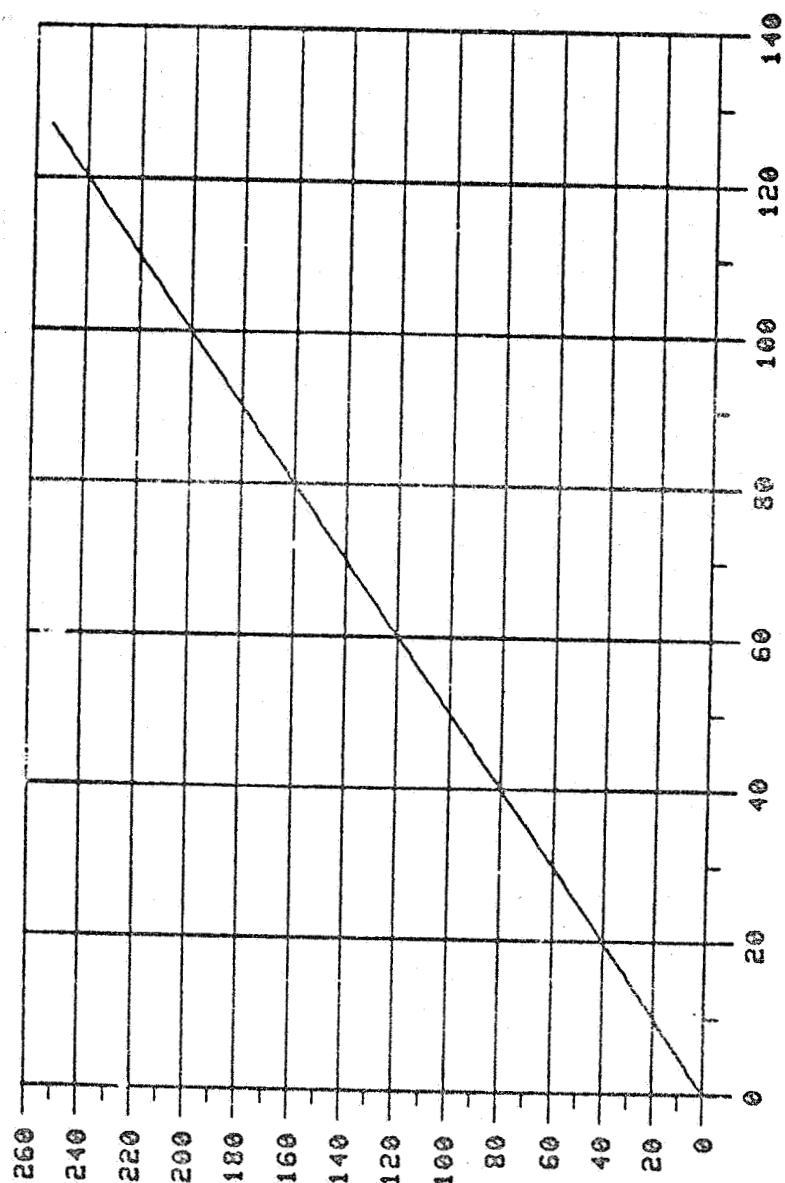
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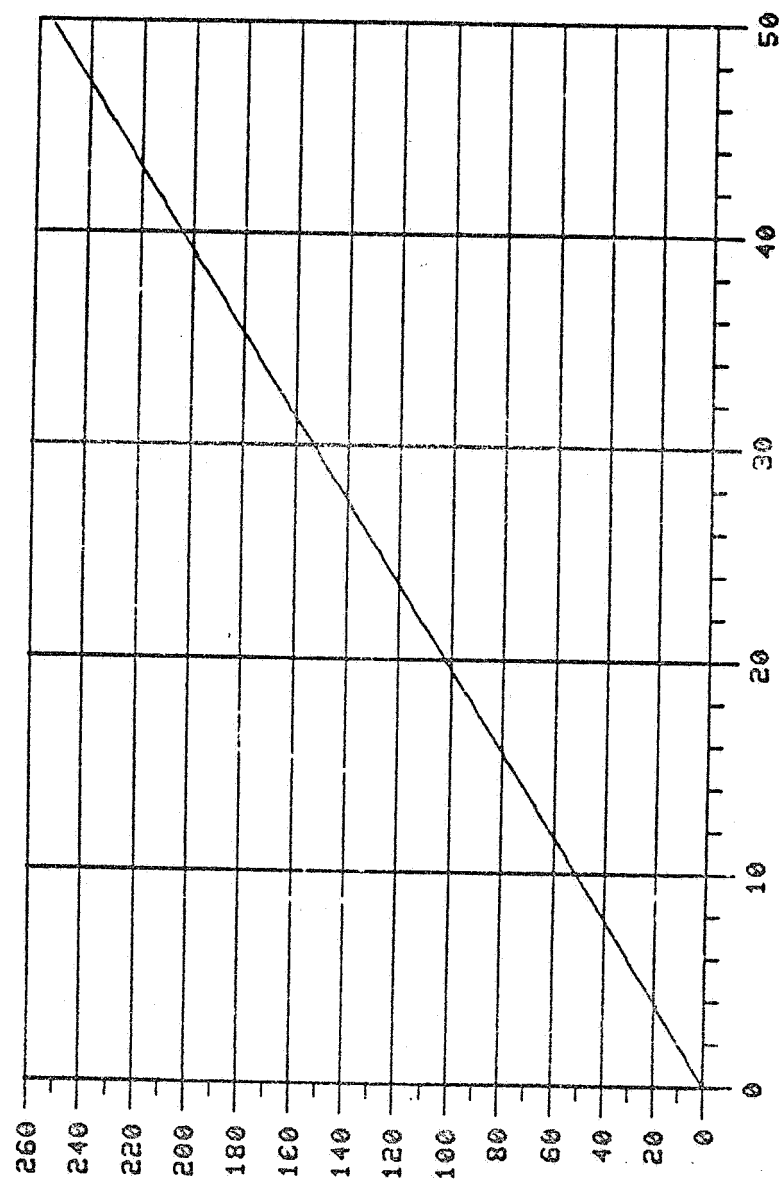


TELEMETRY COUNTS

ENGINEERING UNITS - AMPS

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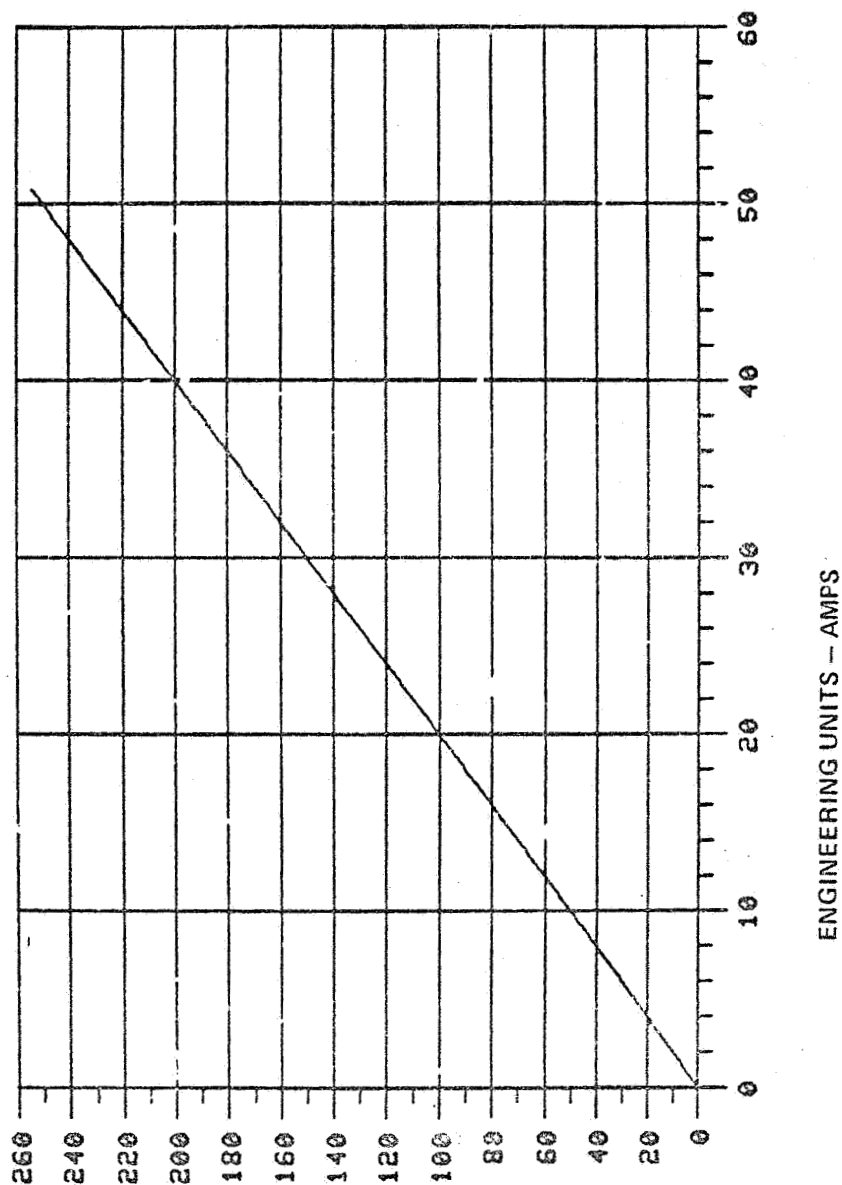


TELEMETRY COUNTS

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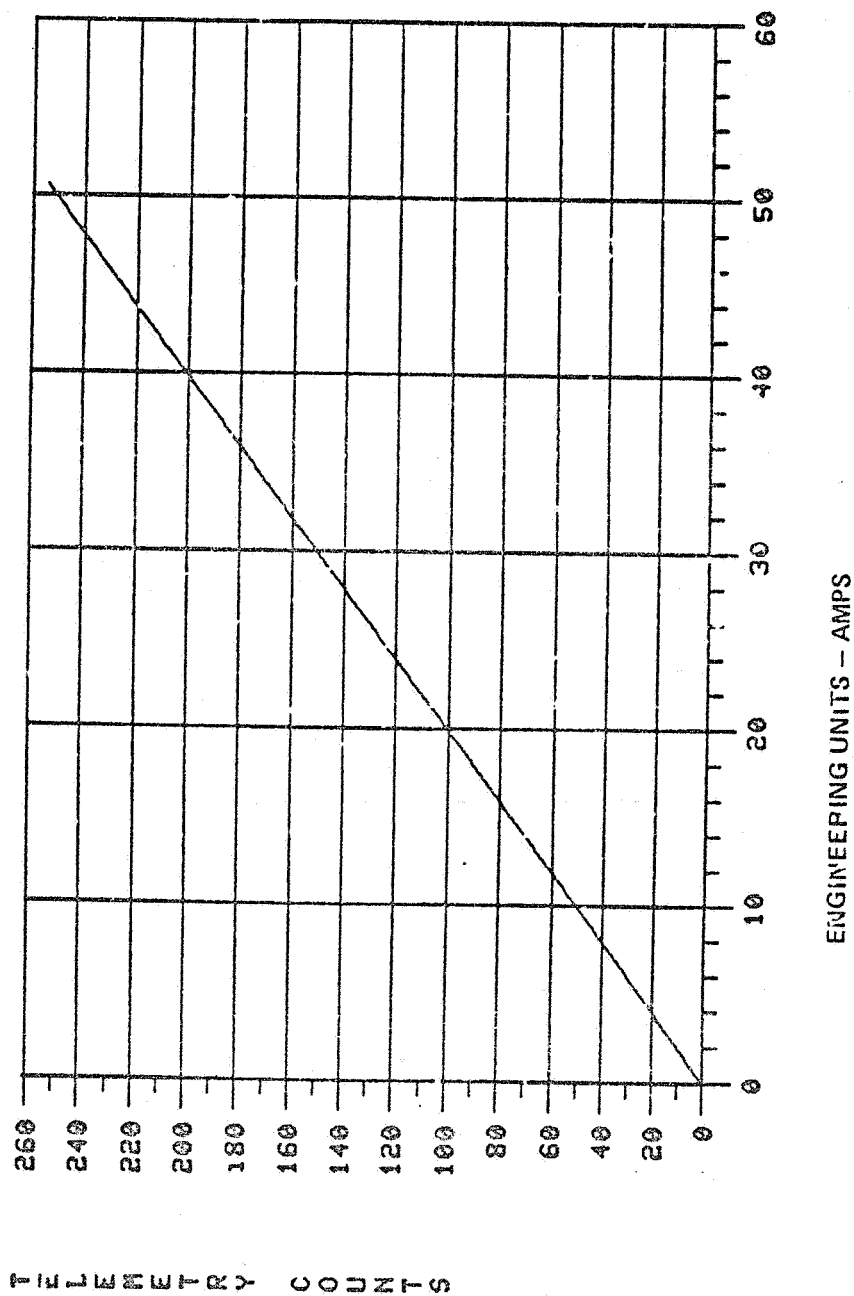
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TELEMETRY COUNTS

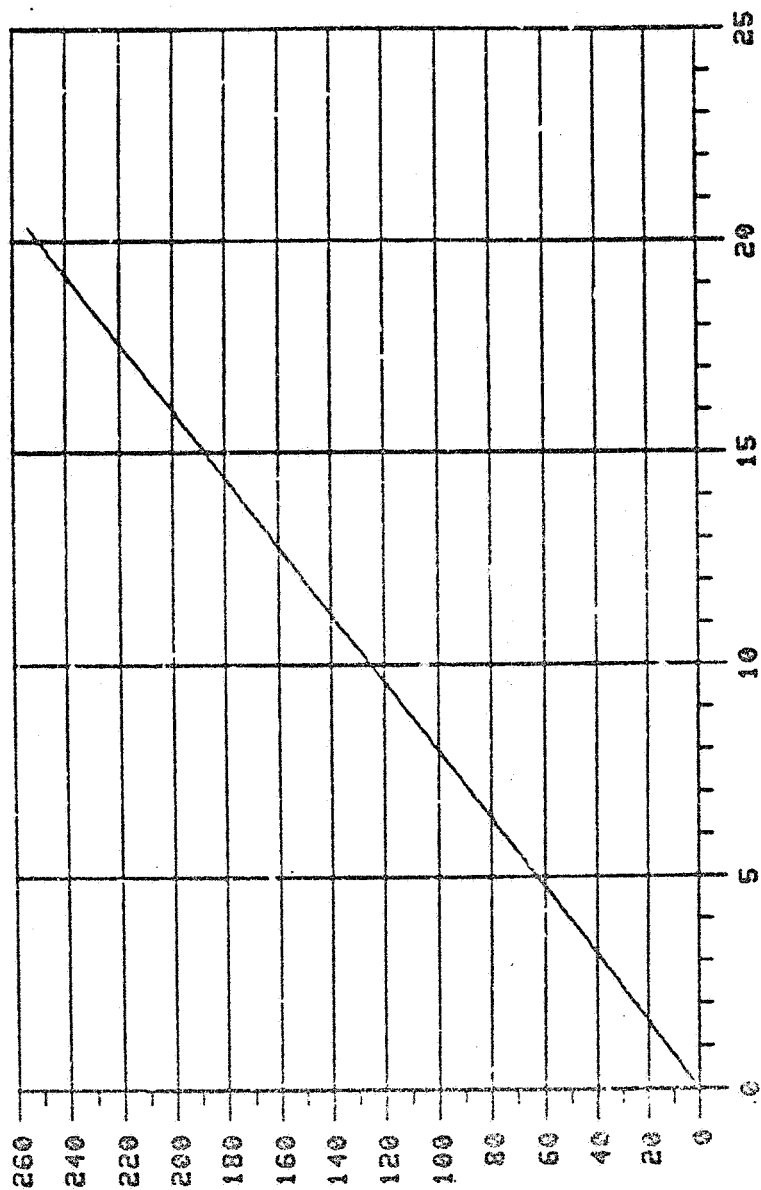
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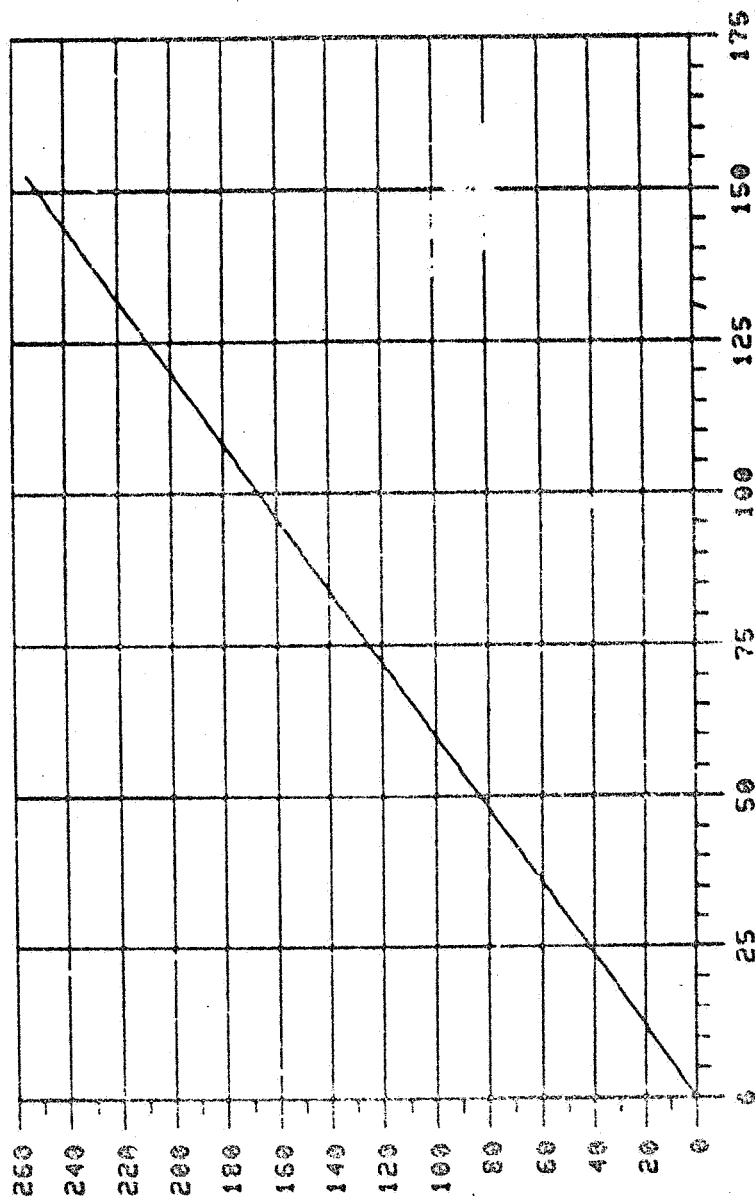


ENGINEERING UNITS - AMPS

TELEMETRY COUNTS

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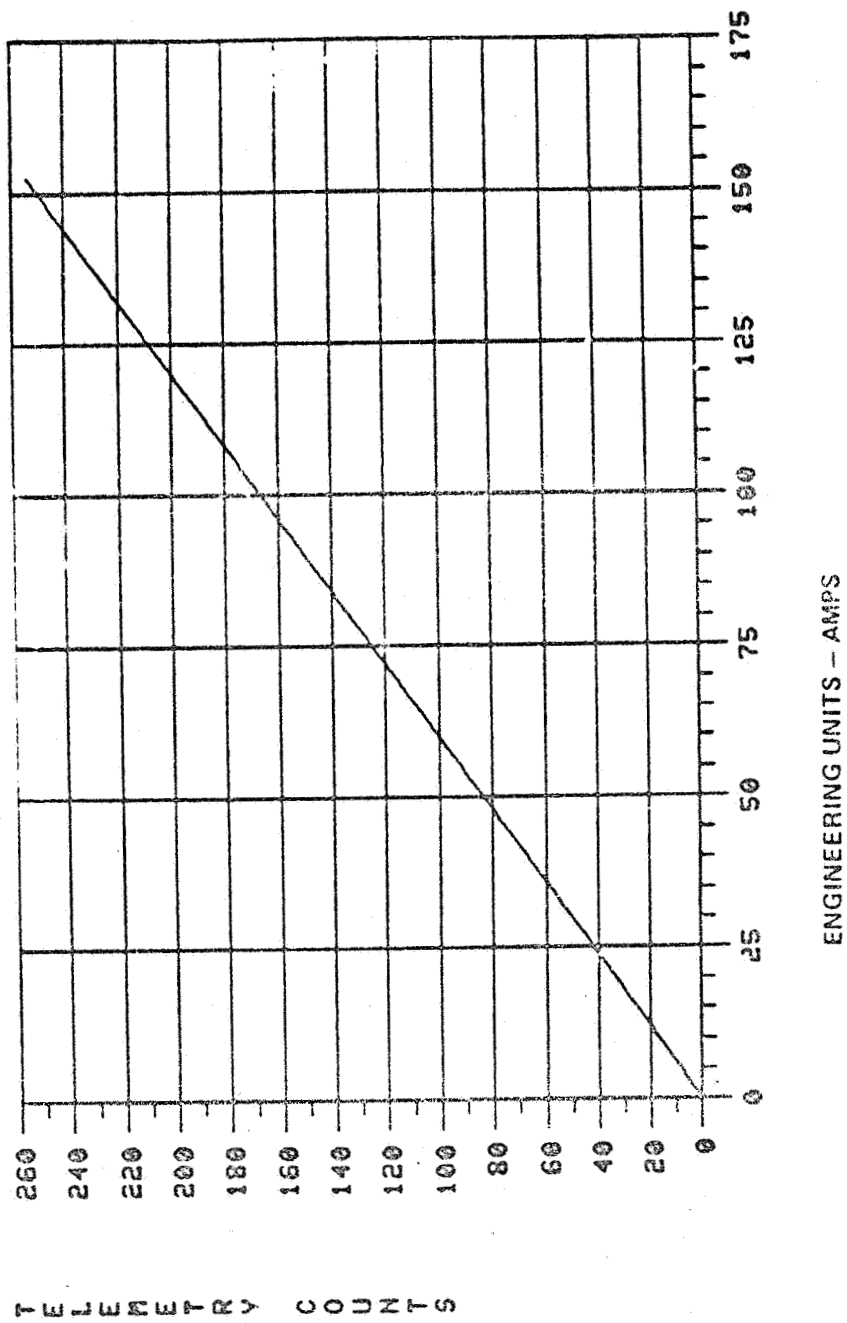


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TELERET COUNTS

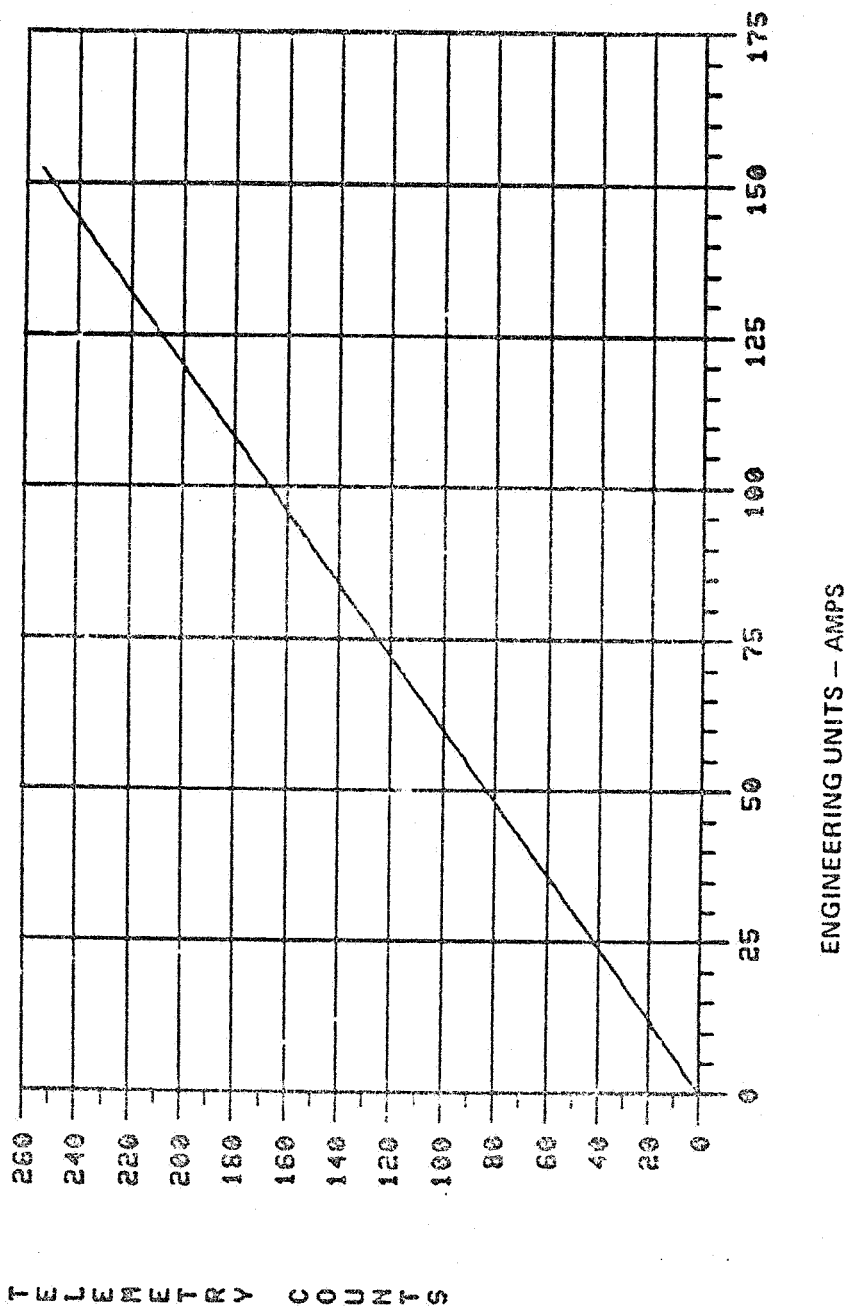
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COUNTS VS ENGINEERING UNITS FOR P1TL2



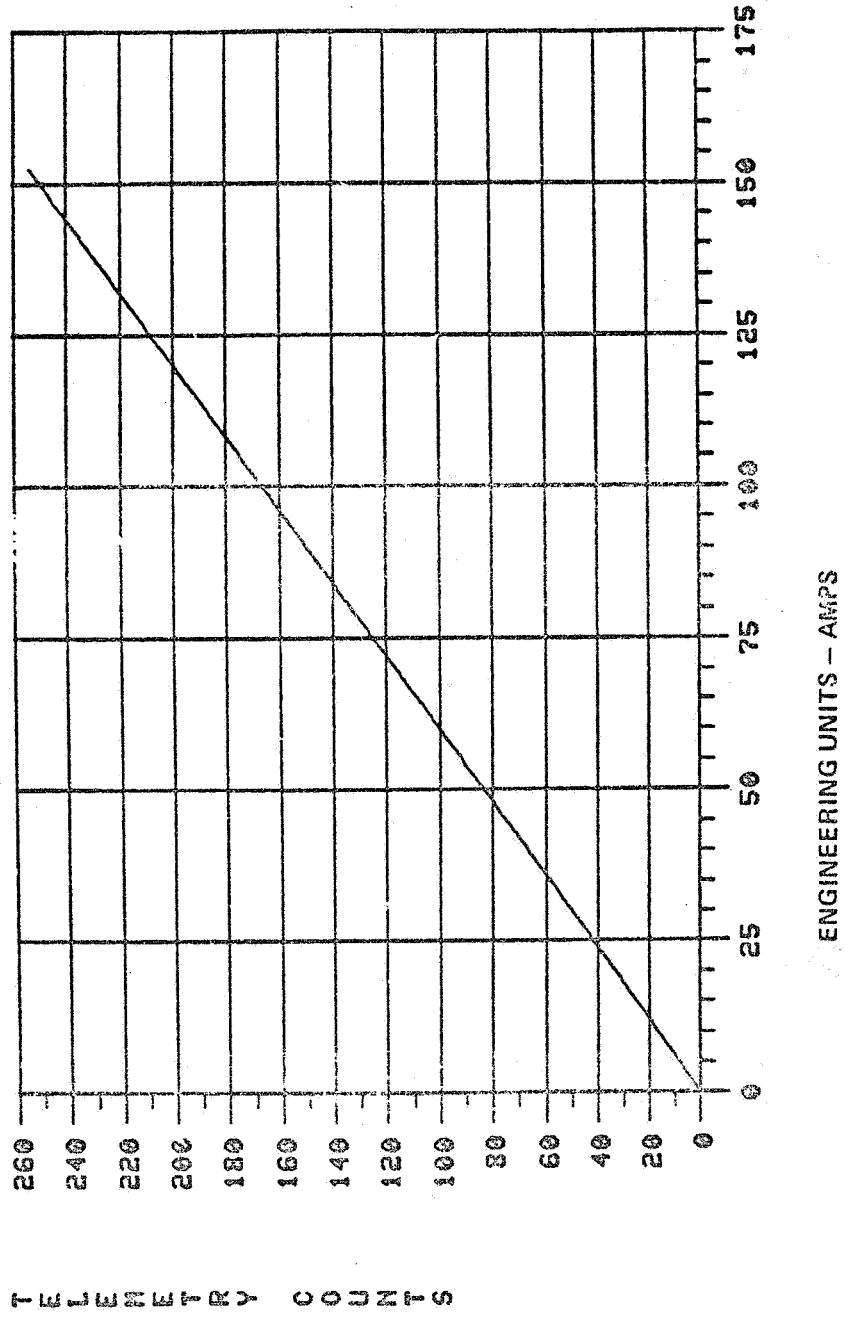
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COUNTS VS ENGINEERING UNITS FOR PITL3



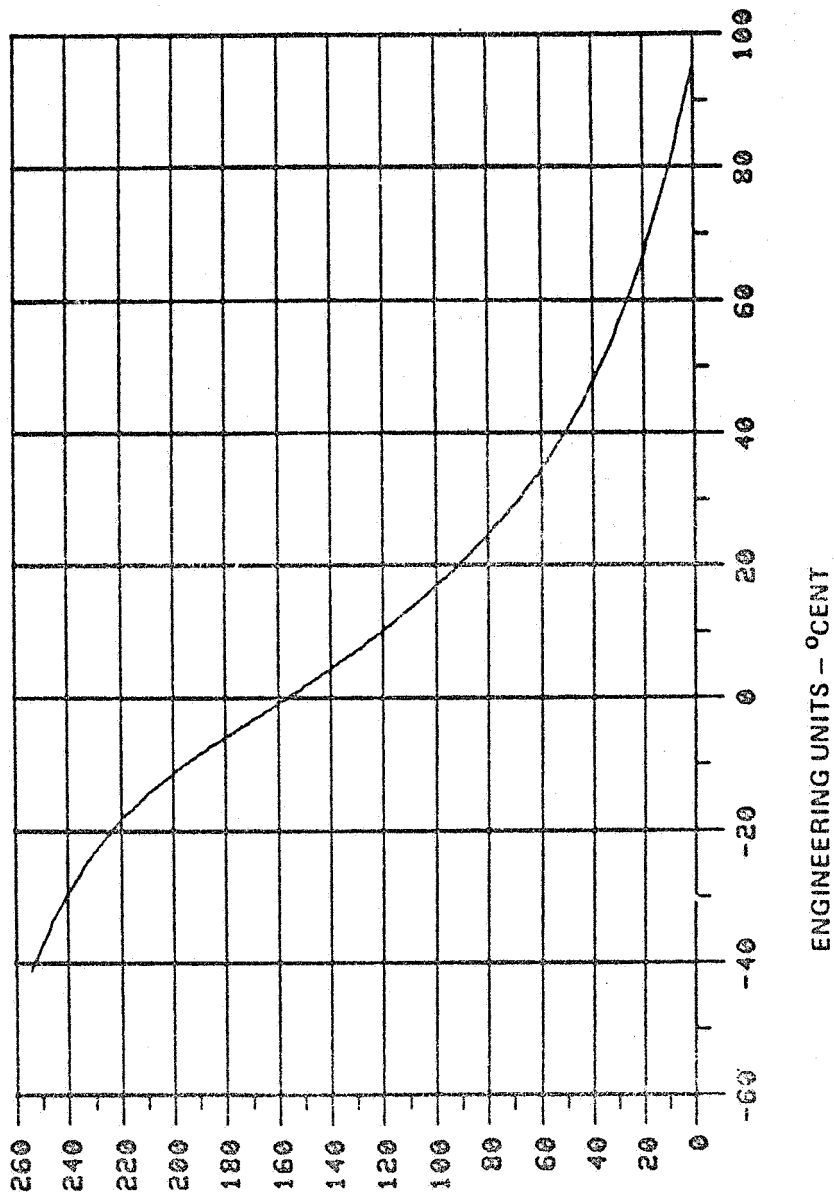
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COUNTS VS ENGINEERING UNITS FOR PITL4



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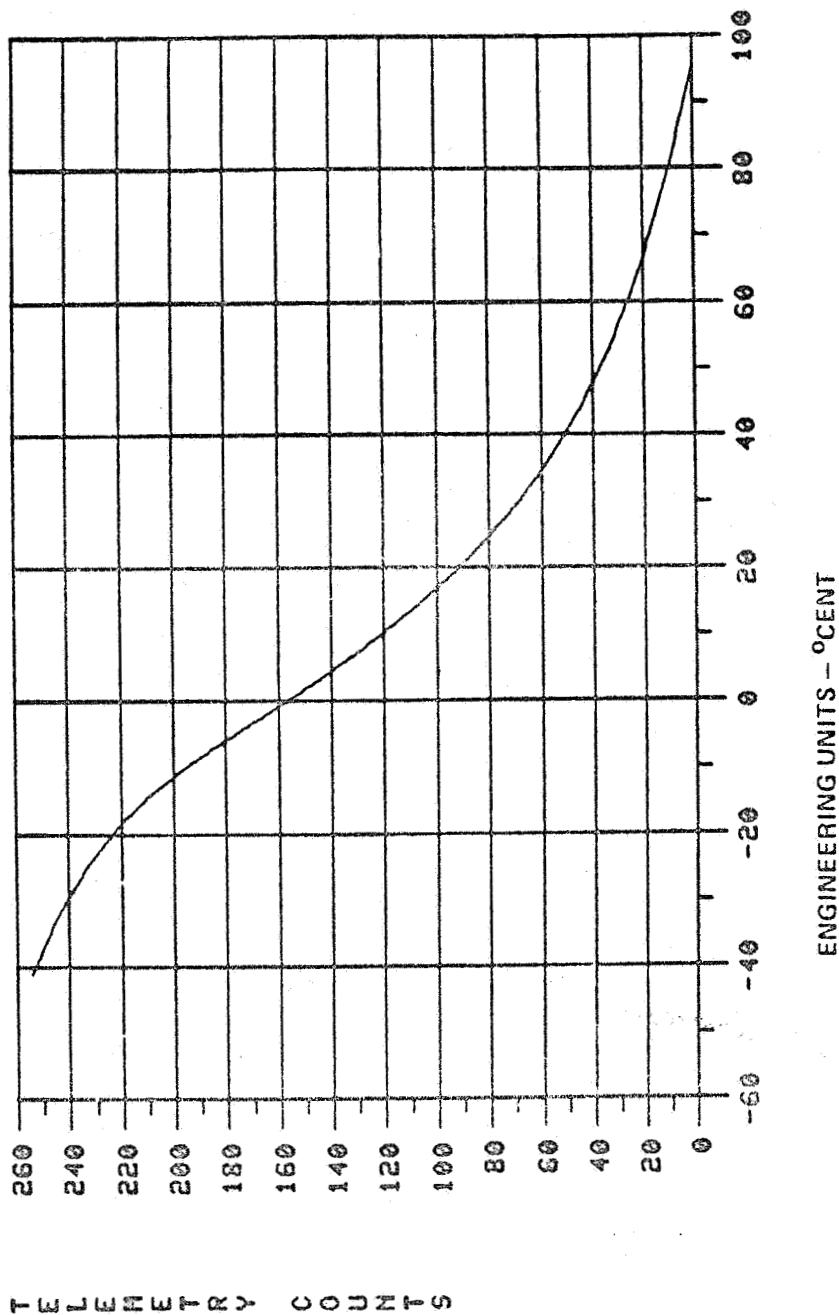
COUNTS VS ENGINEERING UNITS FOR PTBAT1P



TELEMETRY COUNTS

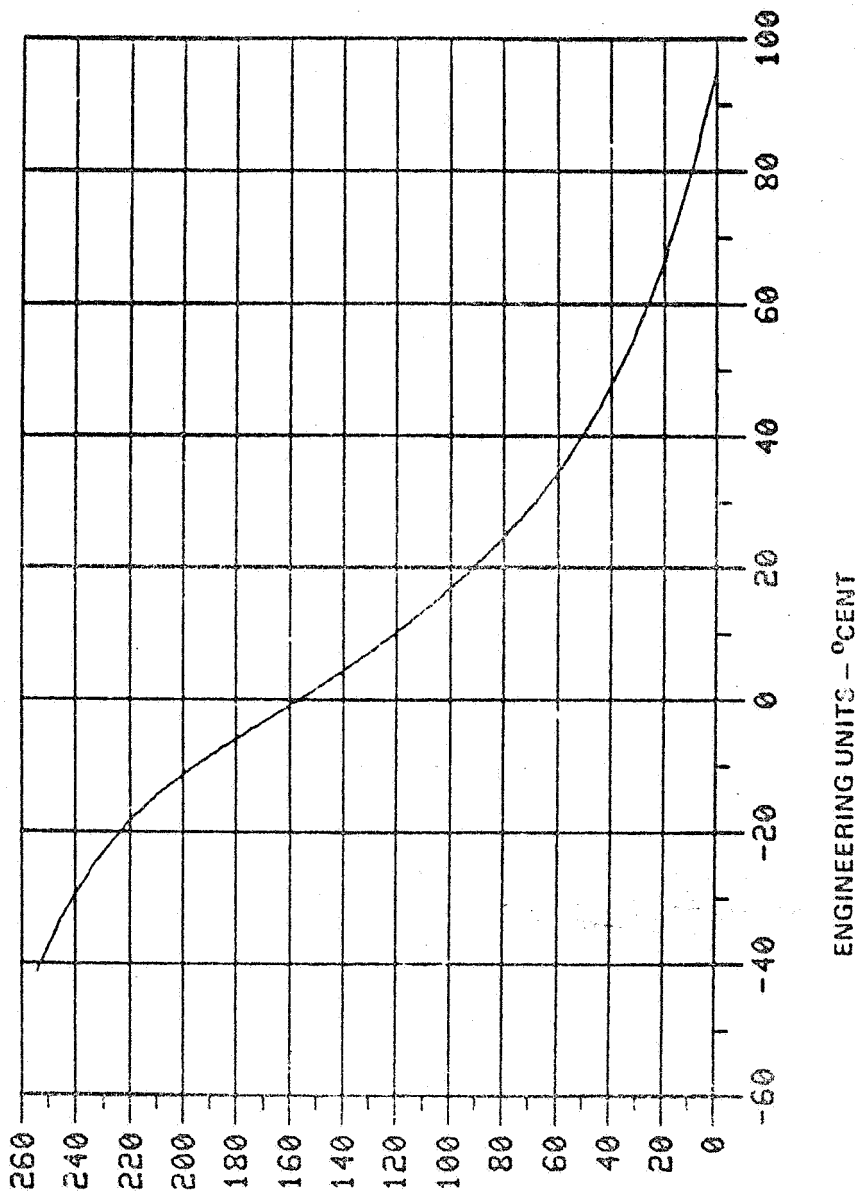
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COUNTS VS ENGINEERING UNITS FOR PTBAT1R



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COUNTS VS ENGINEERING UNITS FOR PTBAT2F

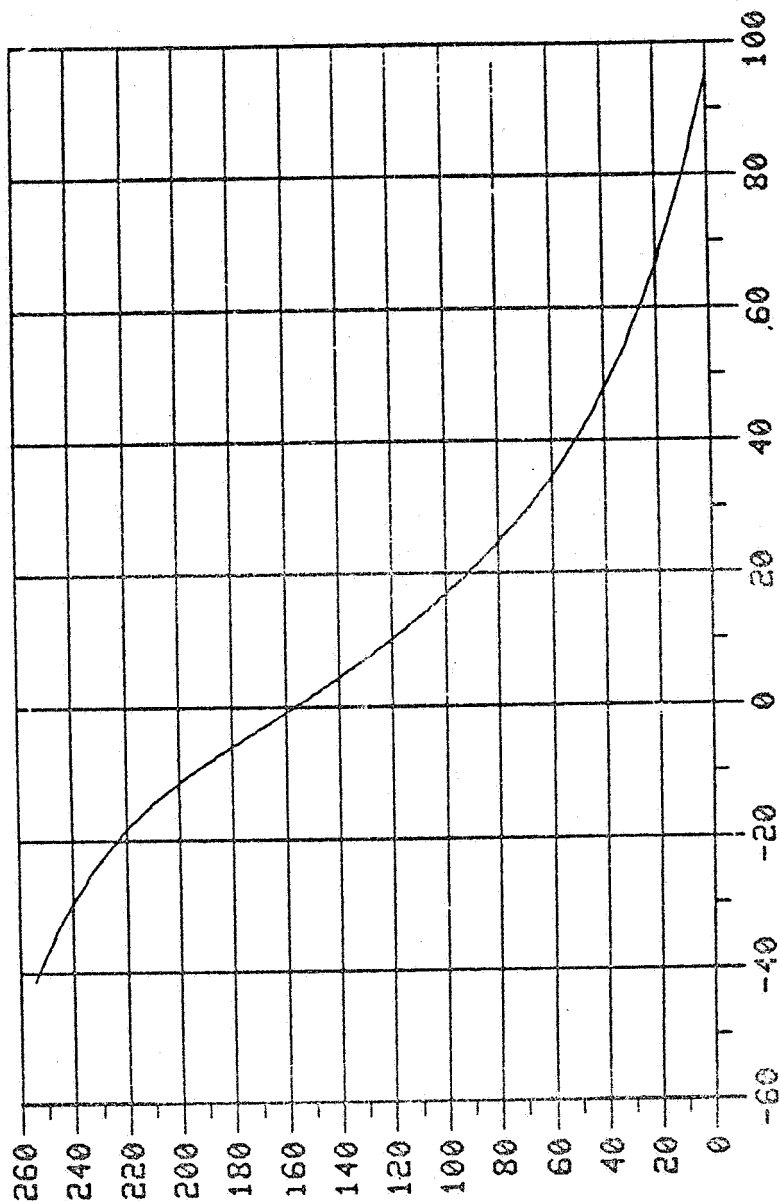


TELEMETRY COUNTS

ENGINEERING UNITS - °CENT

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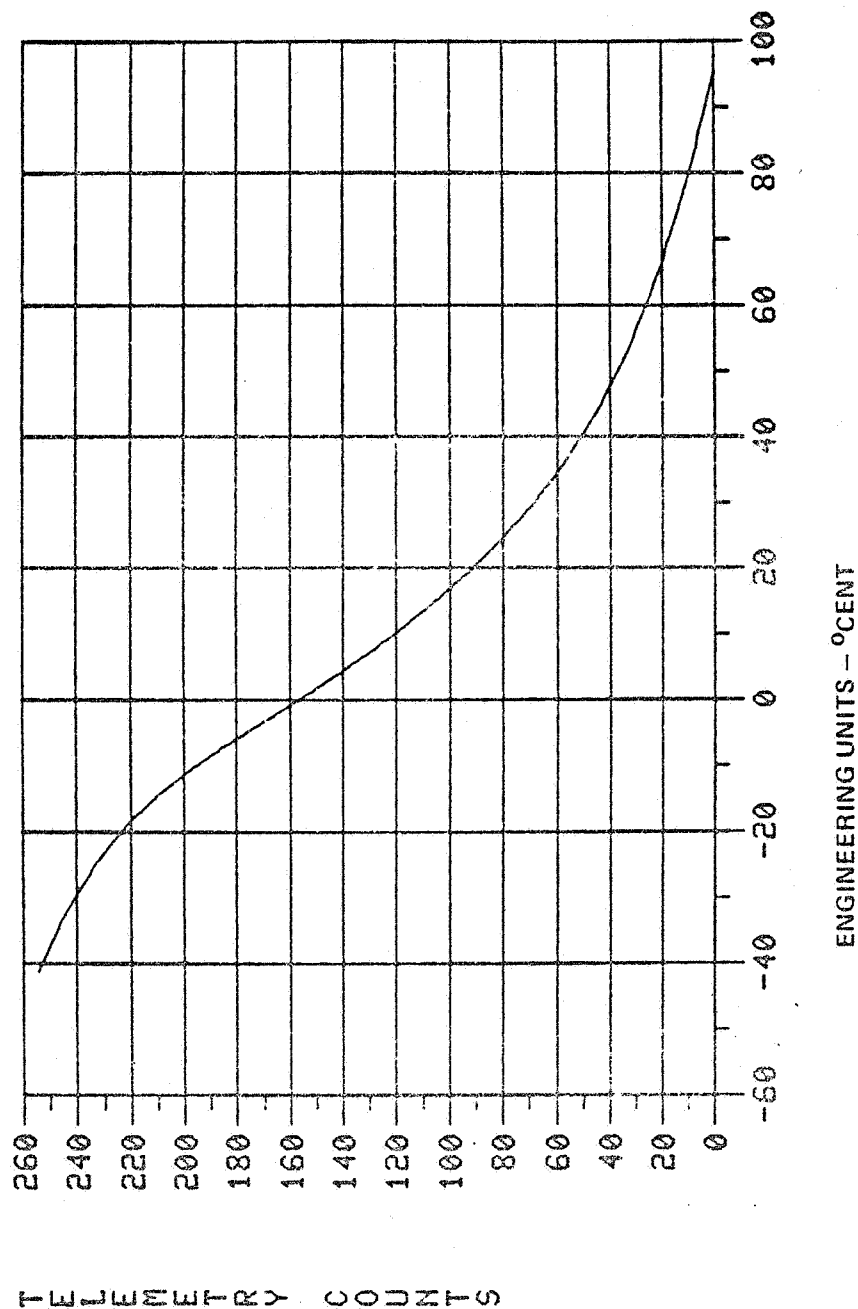


TELEMETRY COUNTS

ENGINEERING UNITS - °CENT

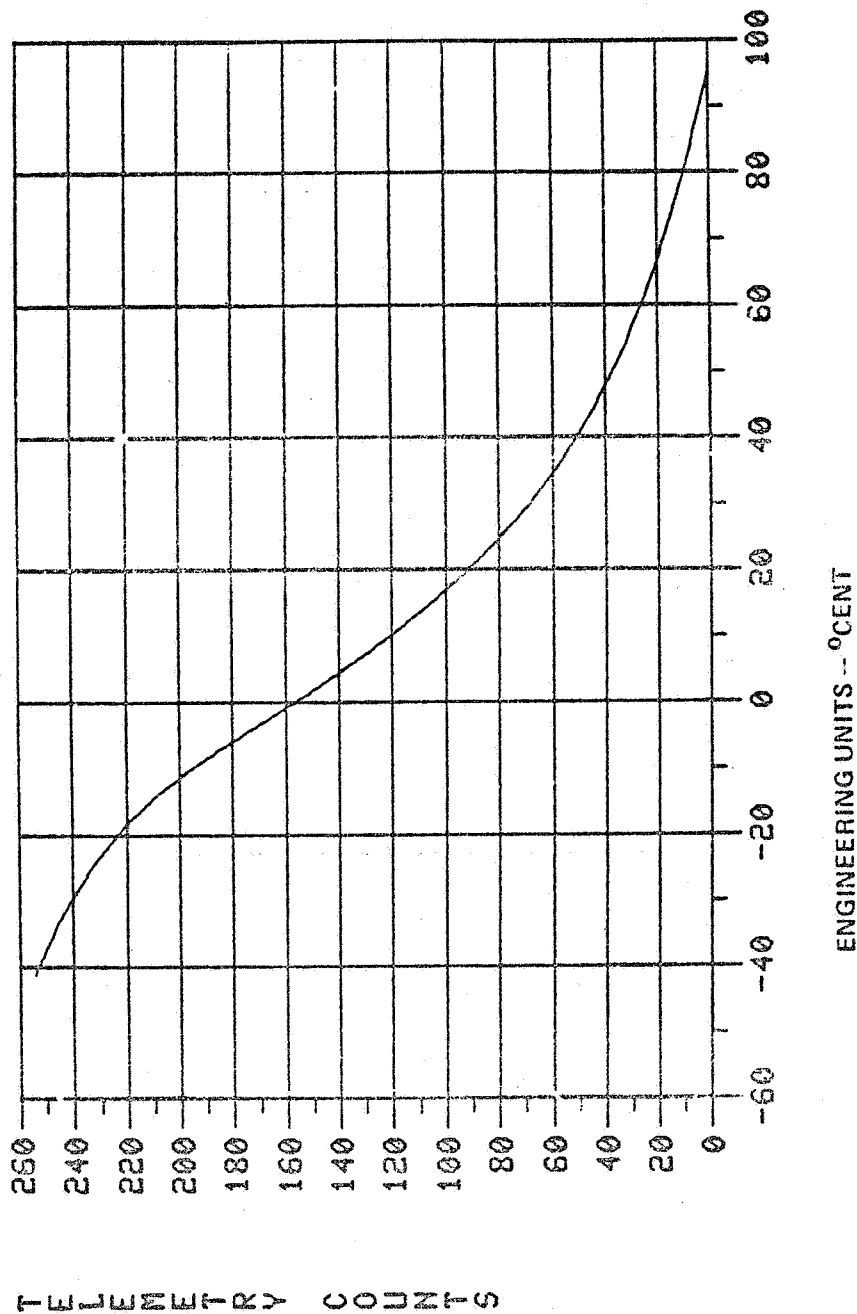
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COUNTS VS ENGINEERING UNITS FOR PTBAT3P



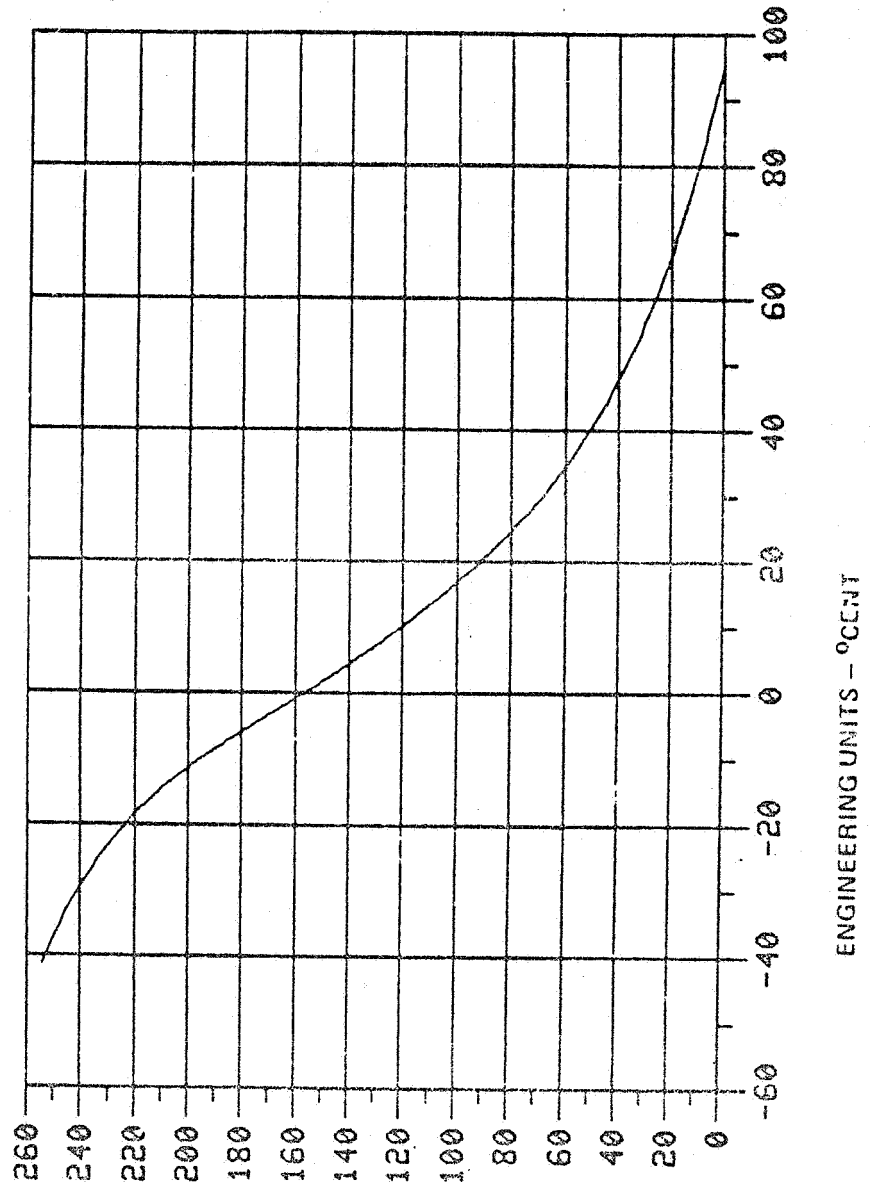
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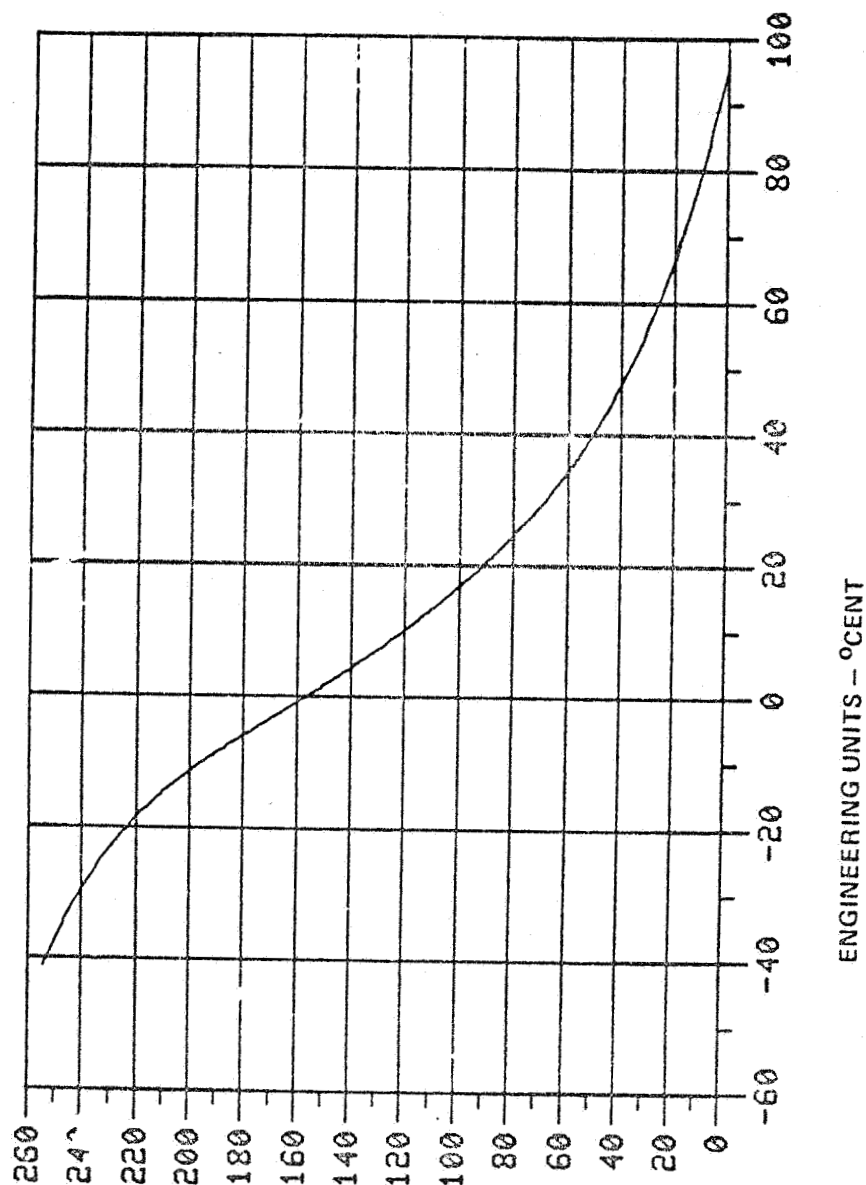
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TELEMETRY COUNTS

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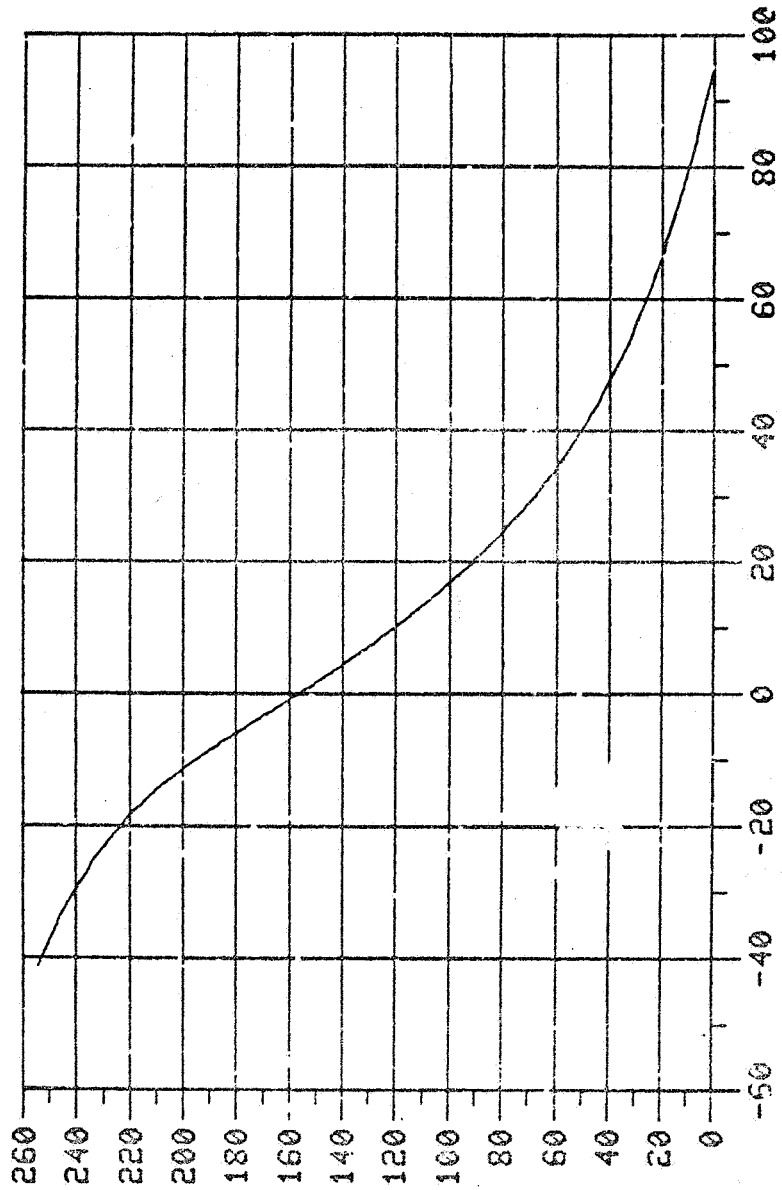
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TELEMETRY COUNTS

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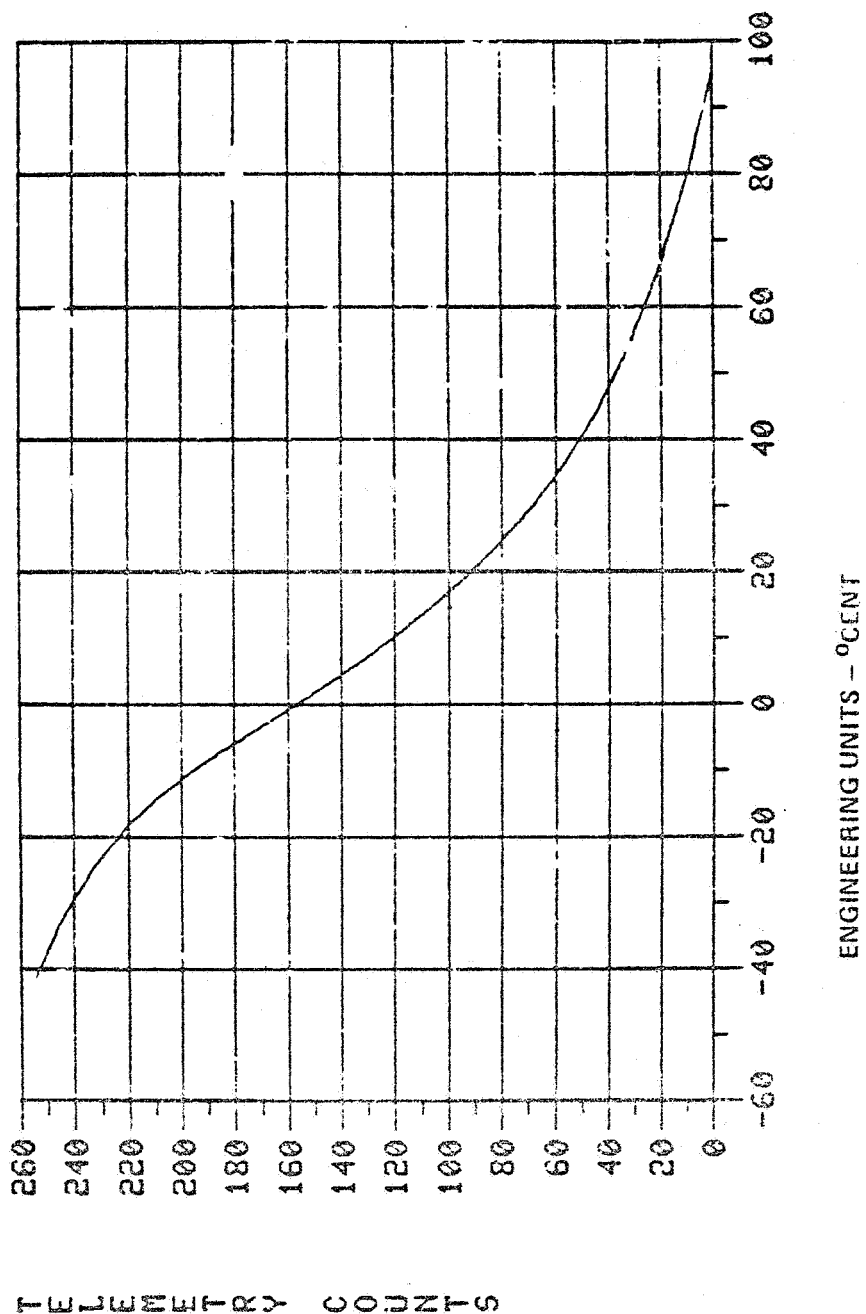


ENGINEERING UNITS - °CENT

TELEMETRY COUNTS

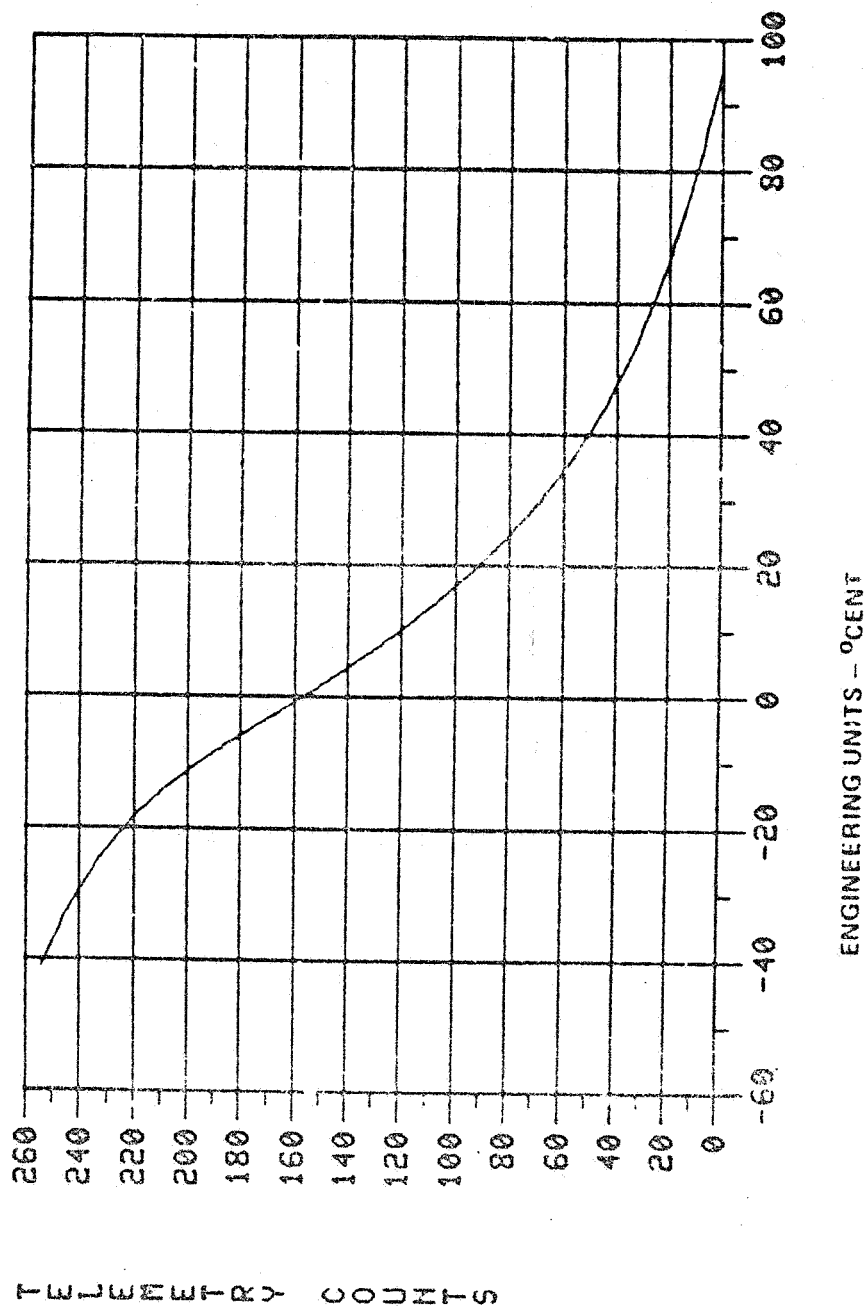
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COUNTS VS ENGINEERING UNITS FOR PTMP53



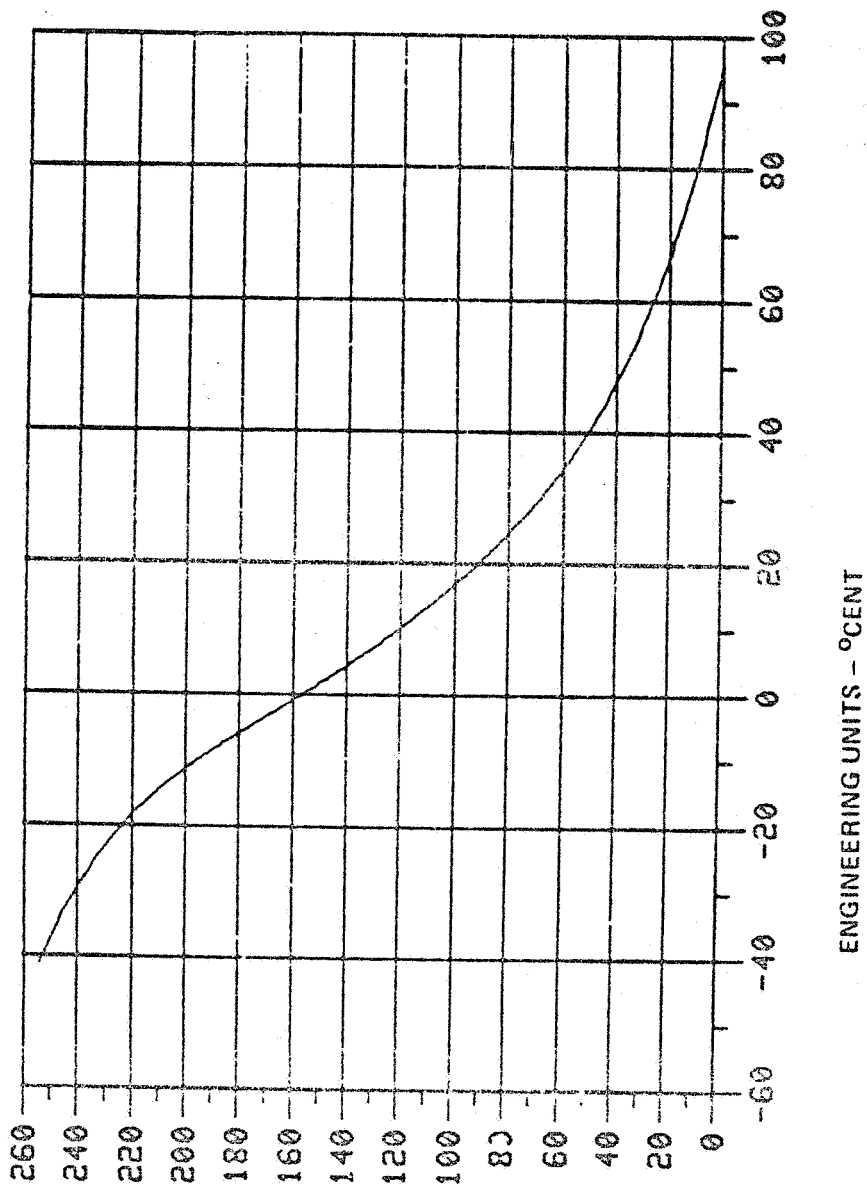
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COUNTS VS ENGINEERING UNITS FOR PTMPS4



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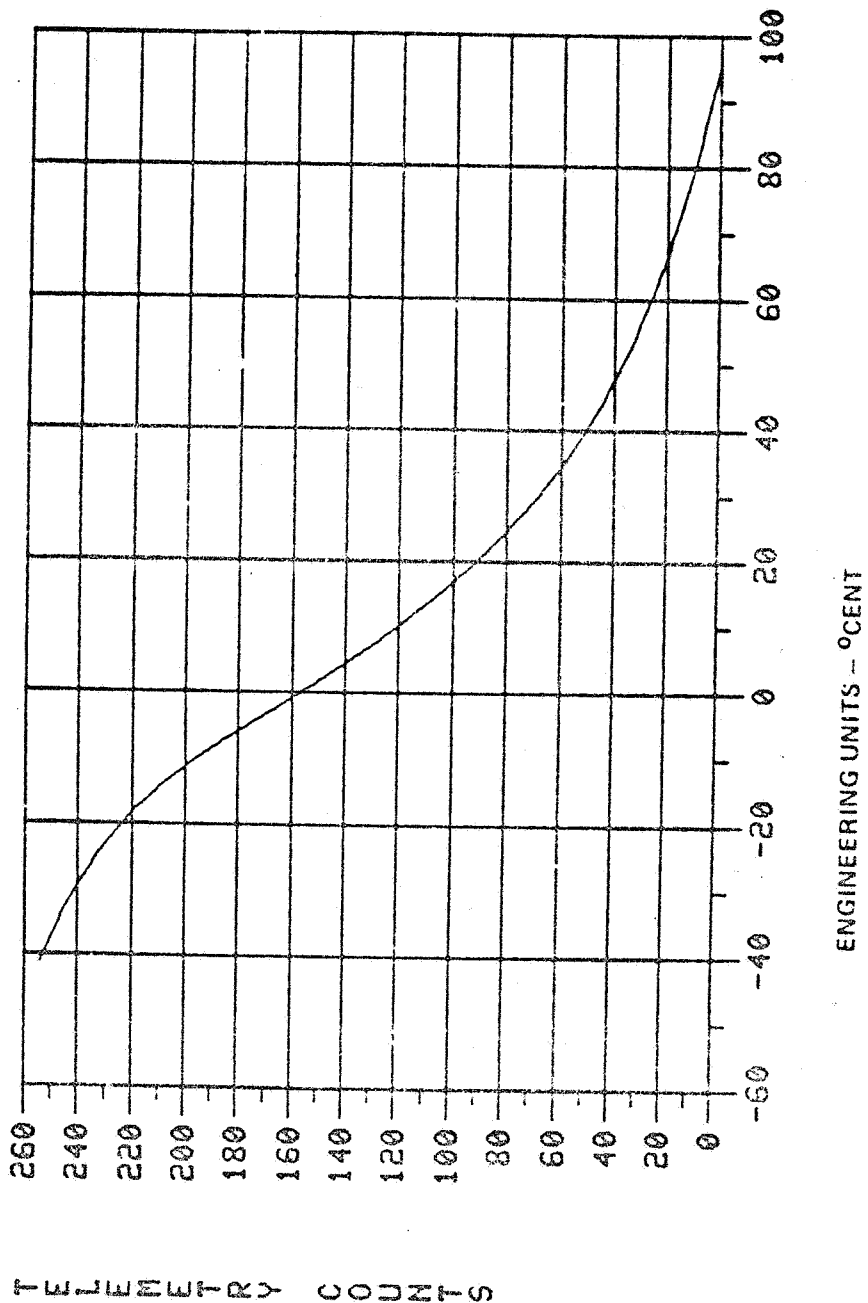
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TELEMETRY COUNTS

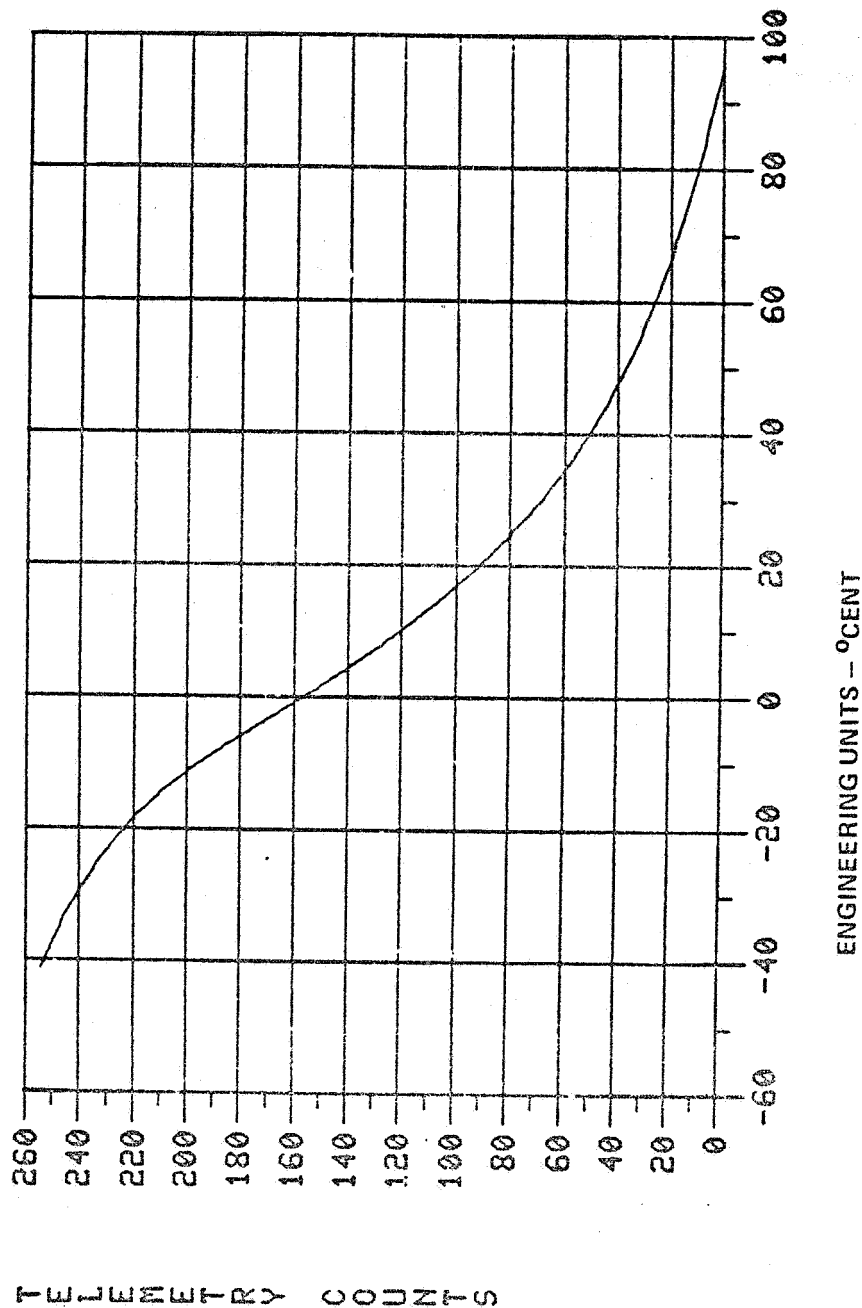
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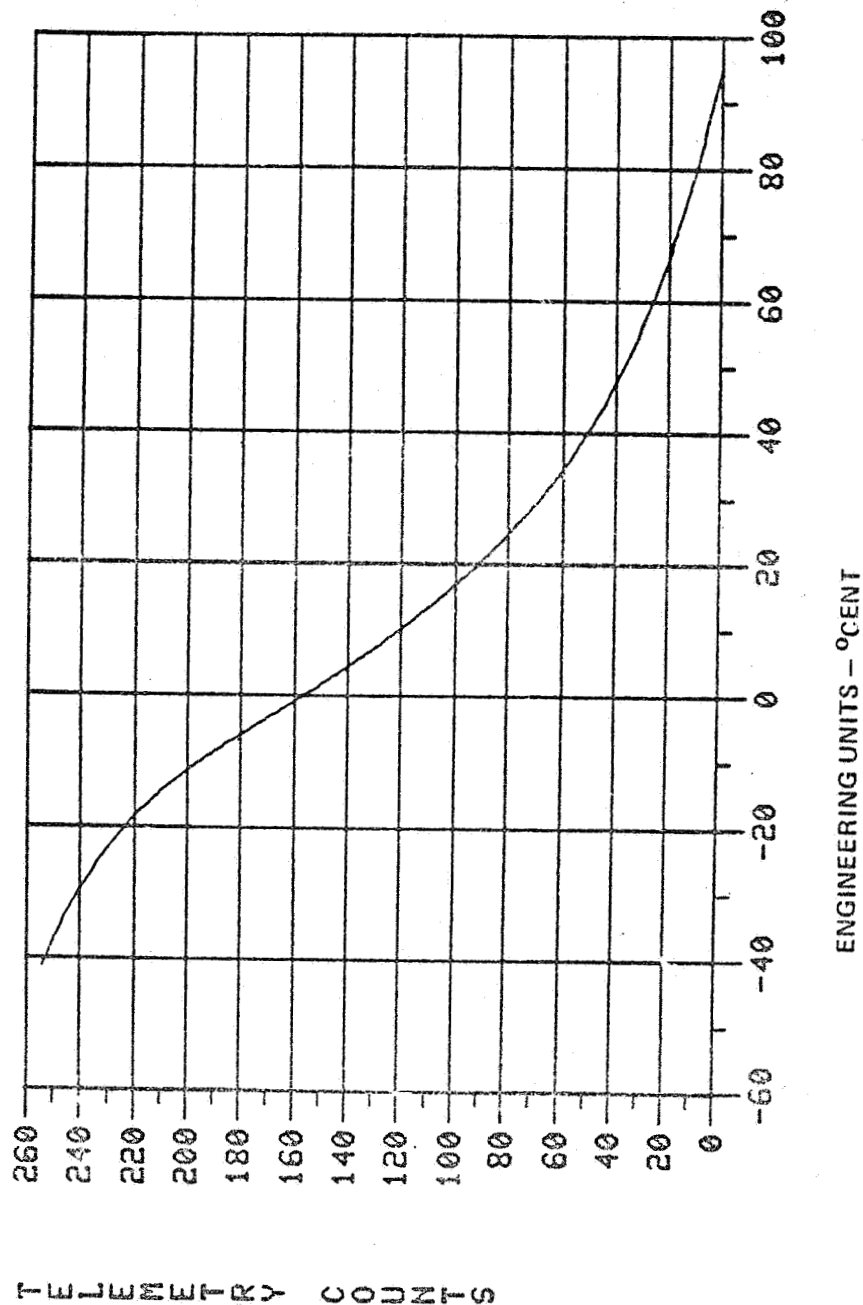
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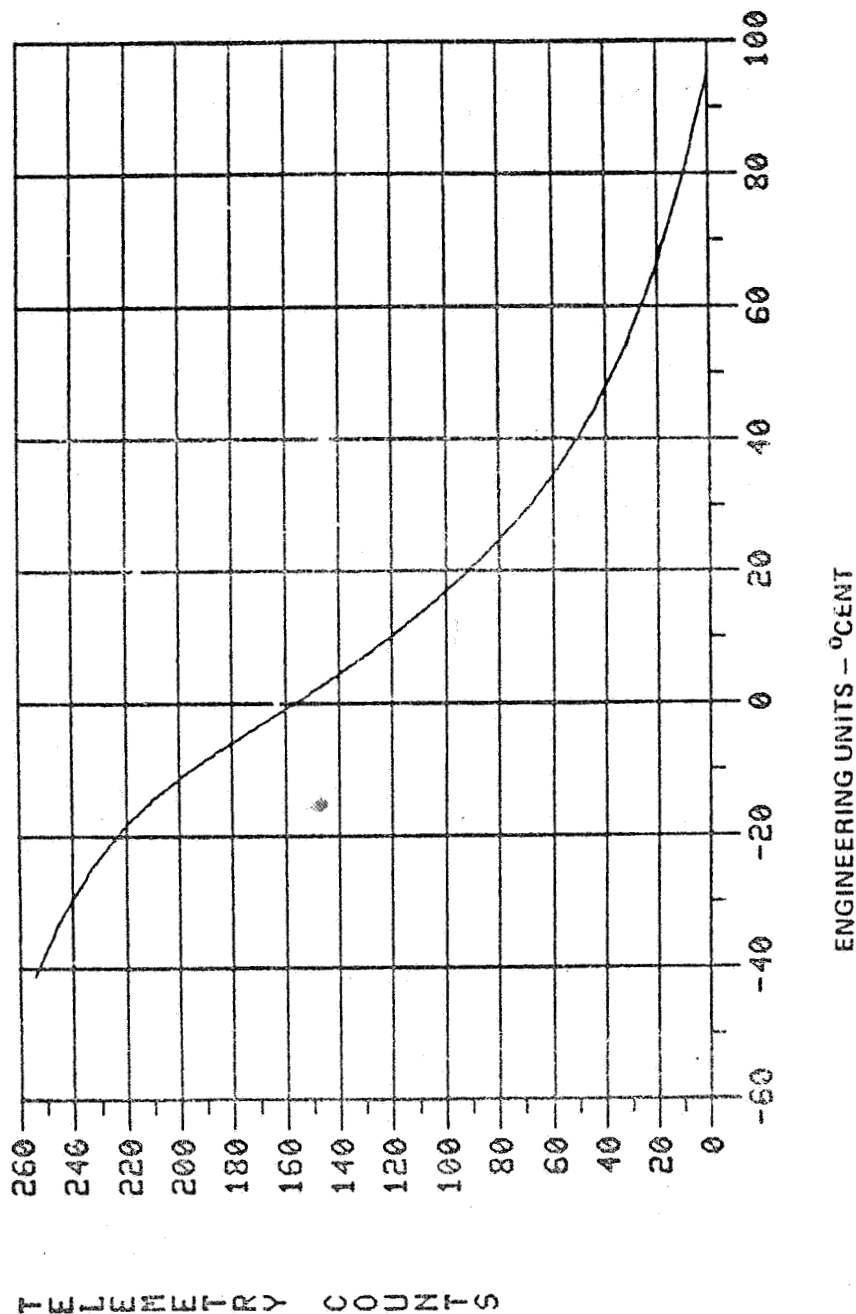
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COUNTS VS ENGINEERING UNITS FOR PTSCA



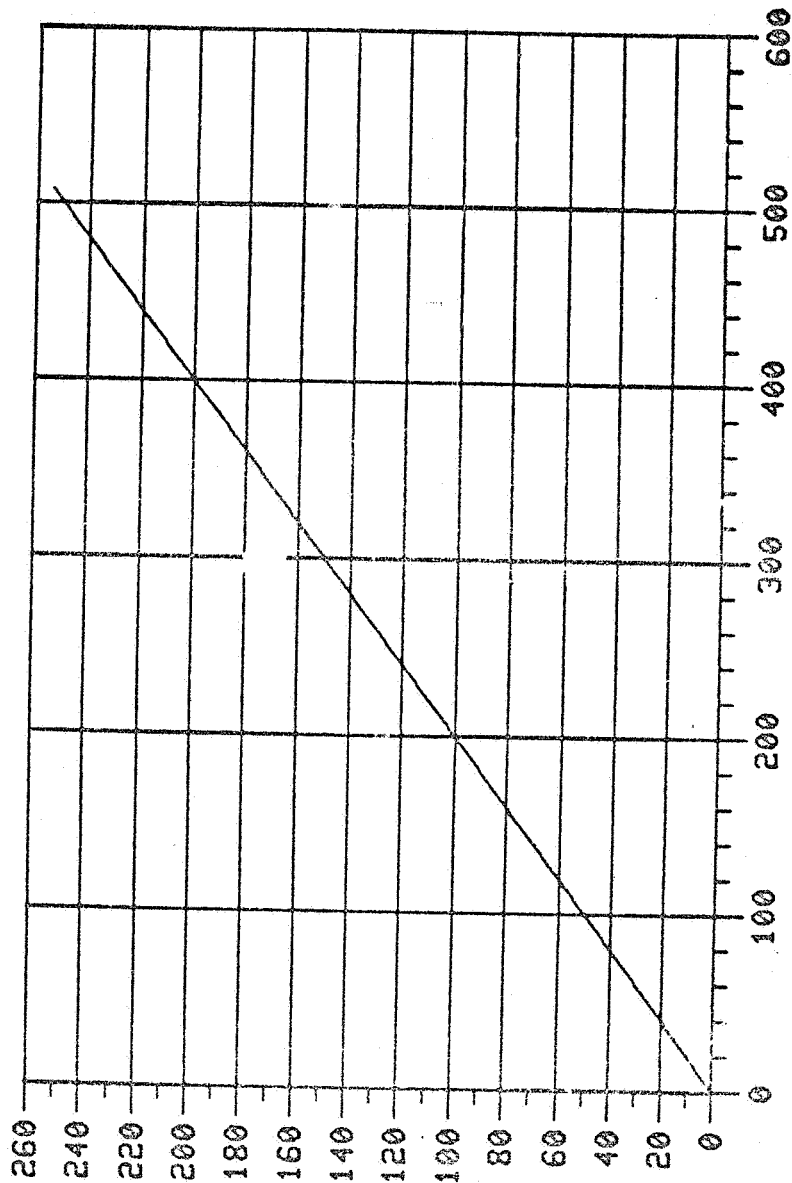
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COUNTS VS ENGINEERING UNITS FOR PTSPRU



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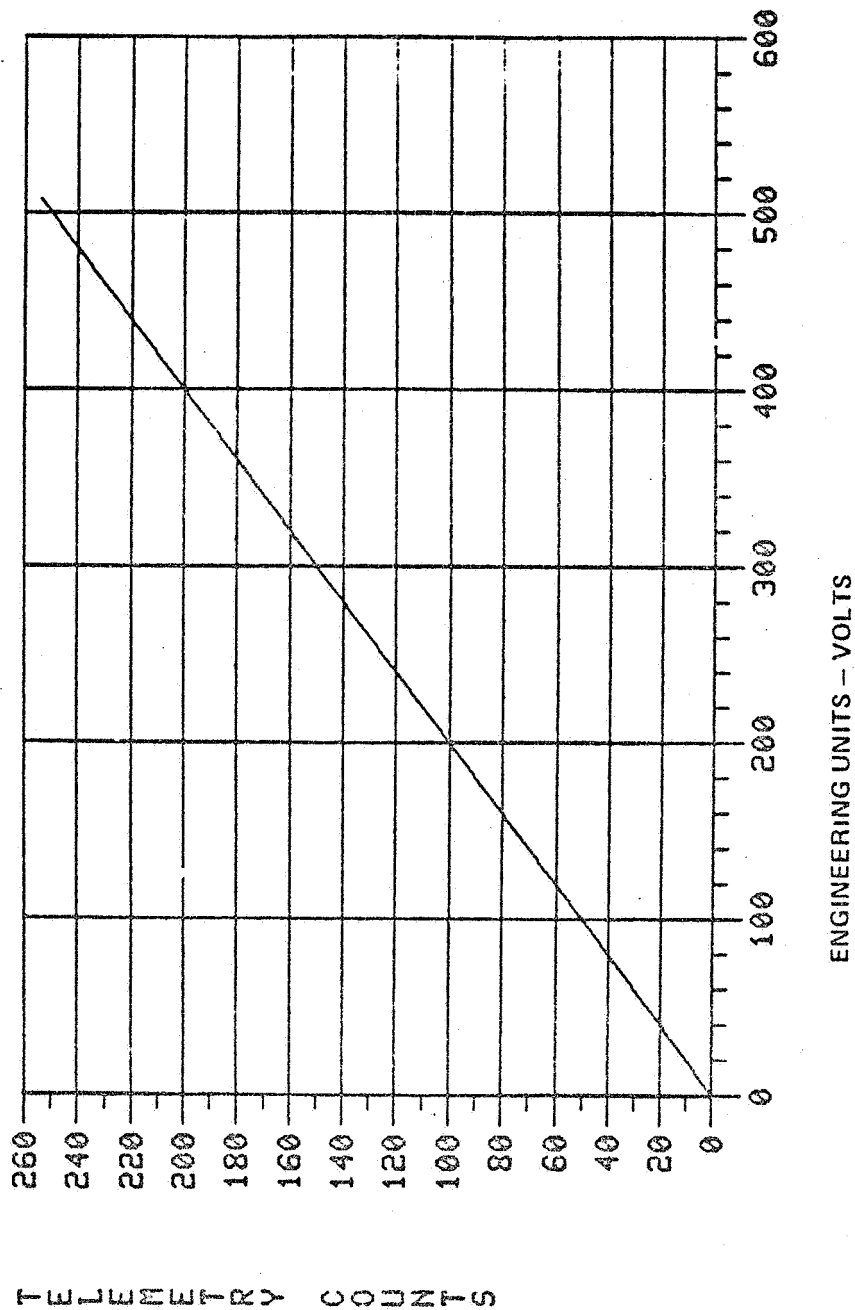


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

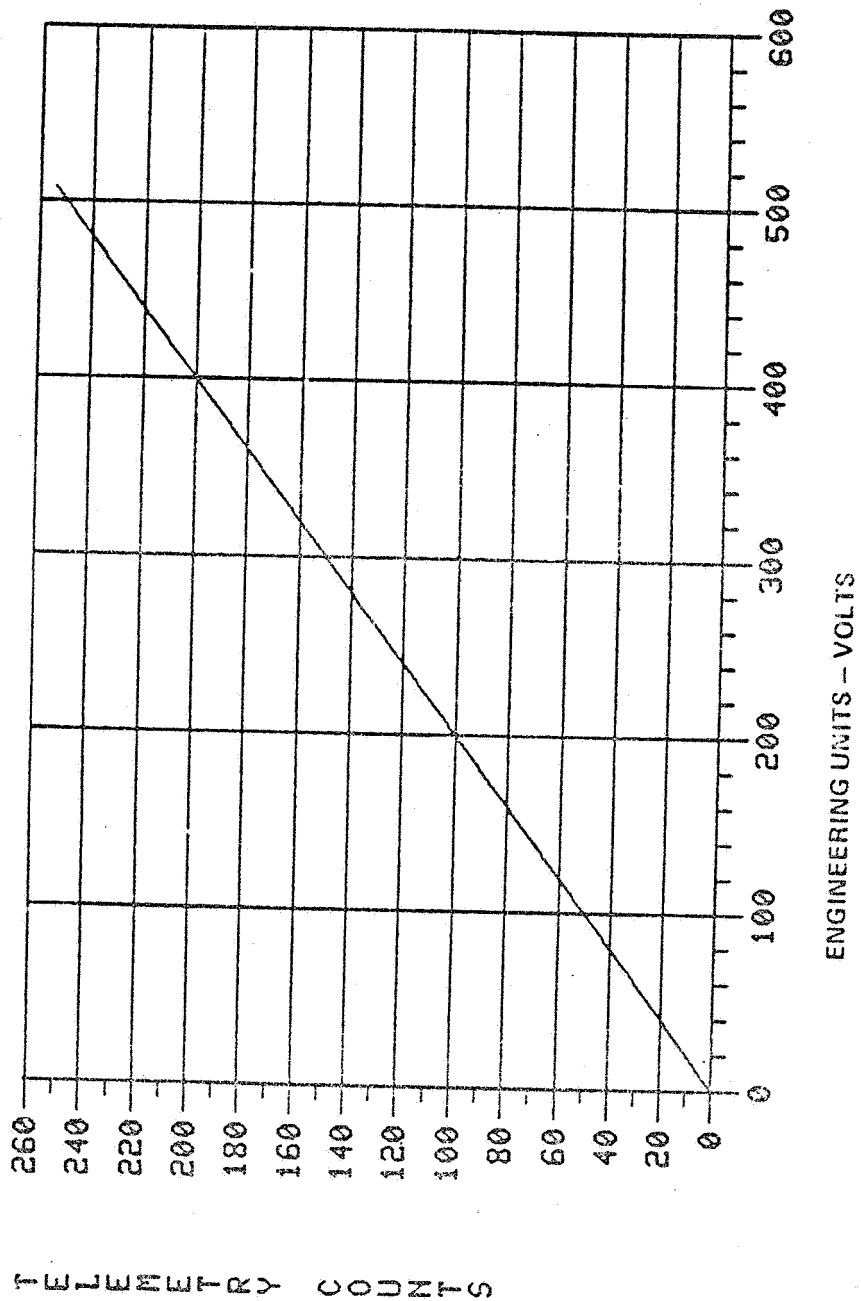
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COUNTS VS ENGINEERING UNITS FOR PU3RDE2



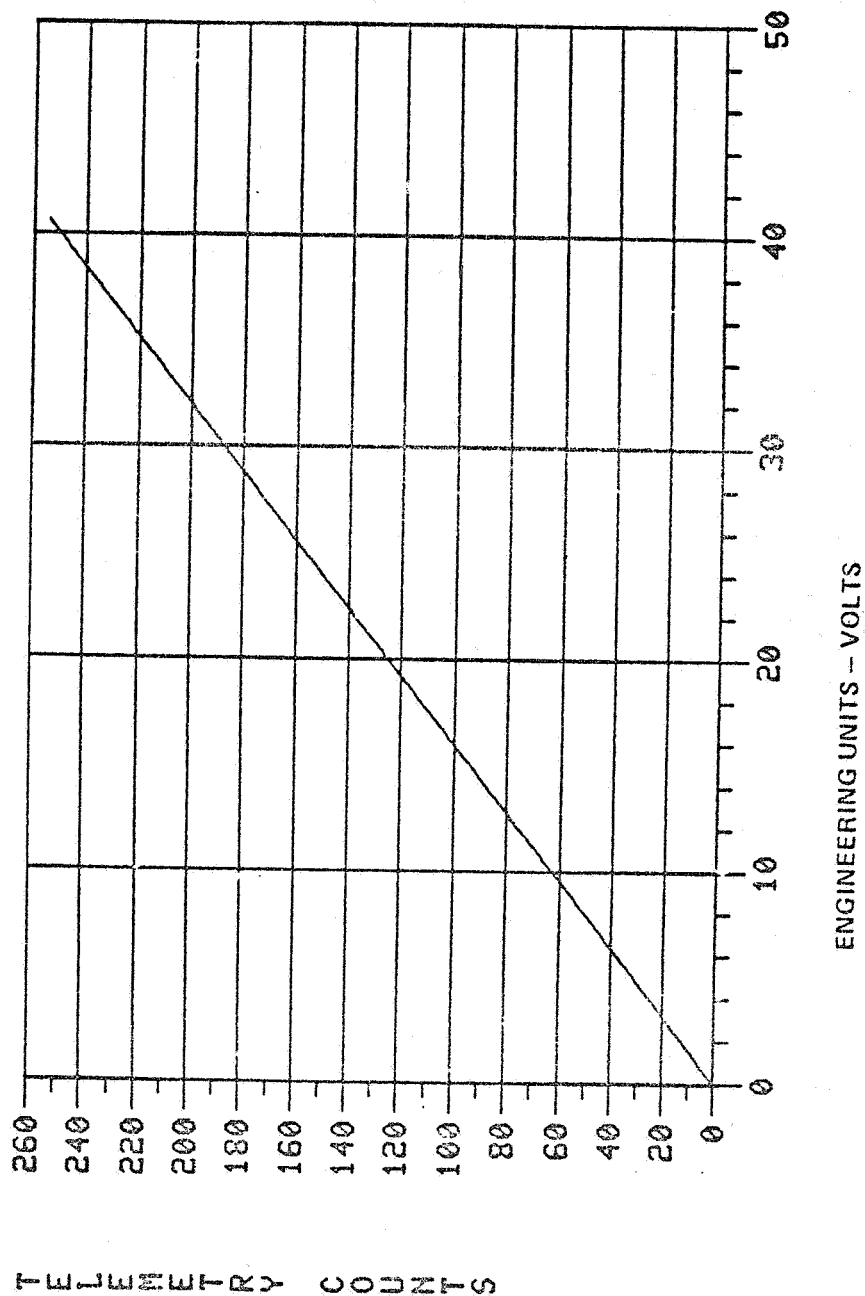
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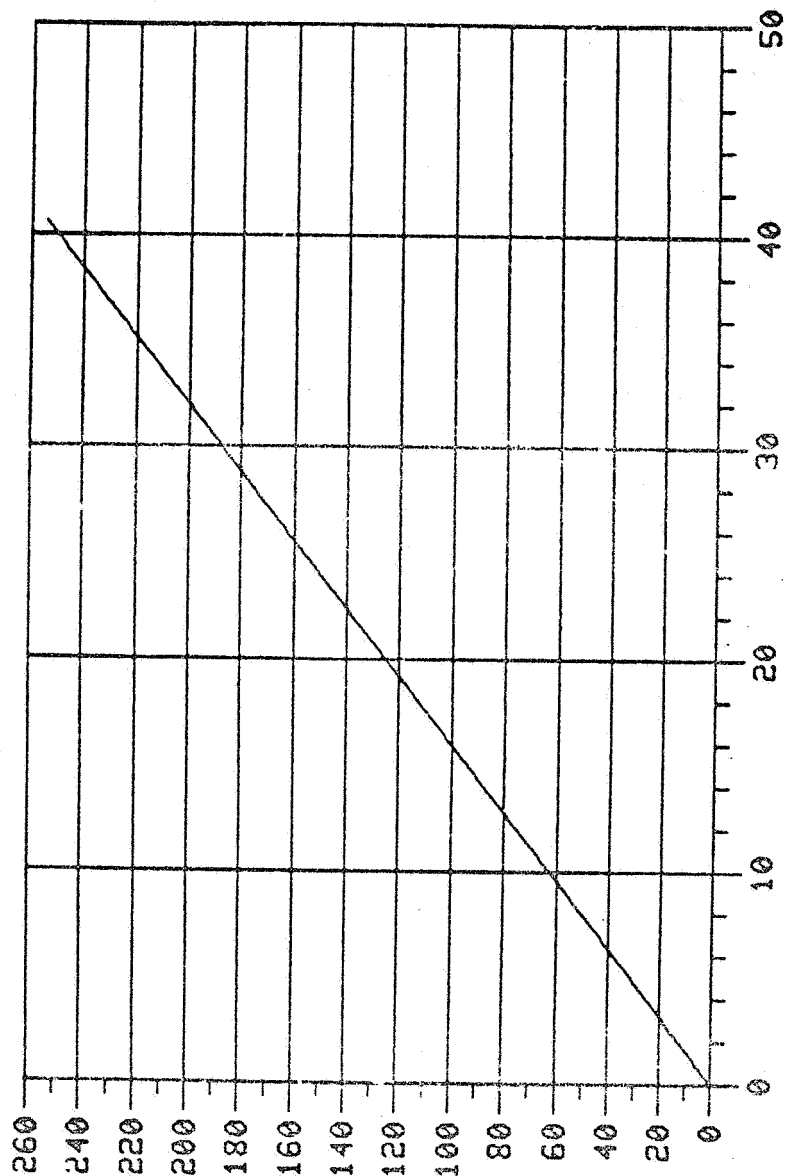
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COUNTS VS ENGINEERING UNITS FOR PUBAT1



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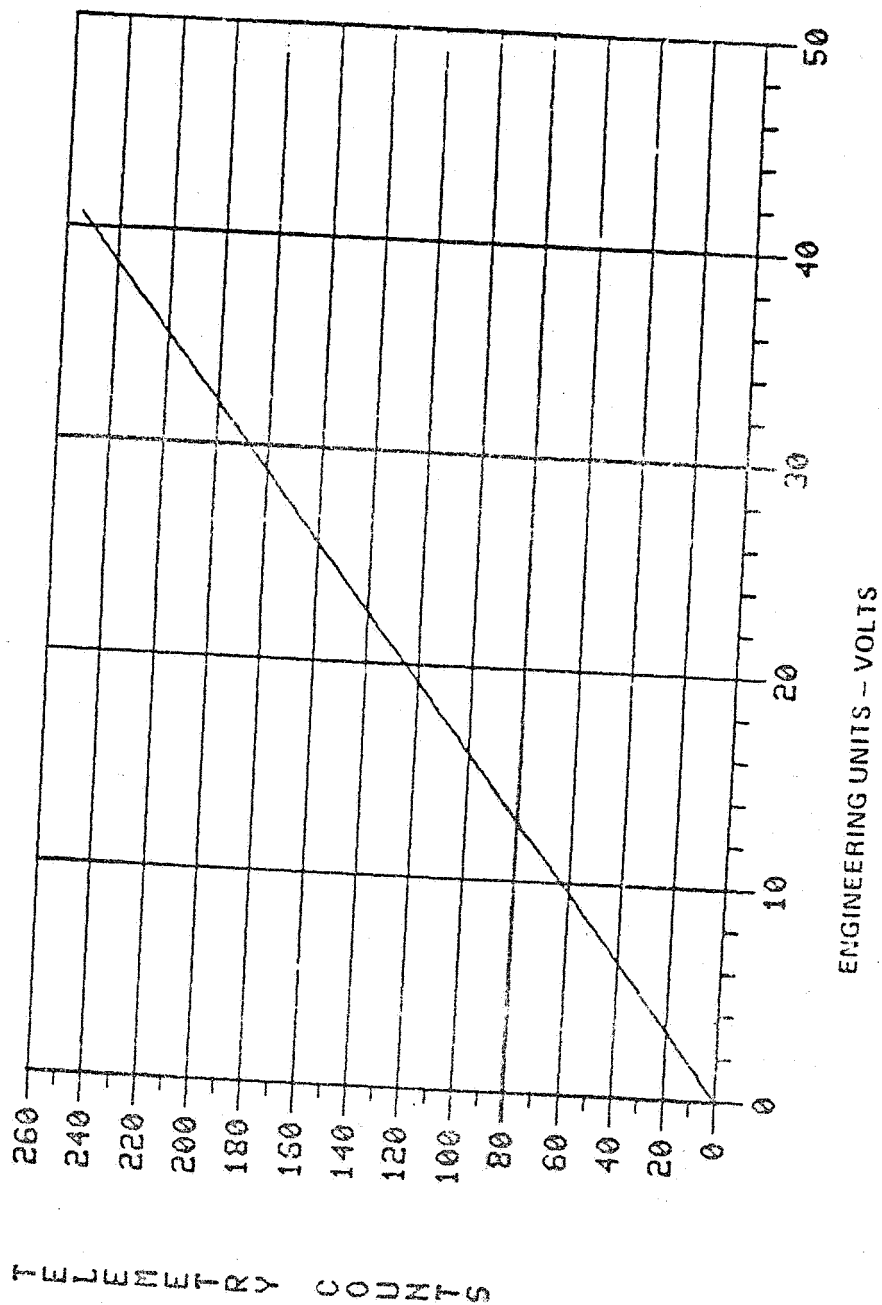


TELEMETRY COUNTS

ENGINEERING UNITS - VOLTS

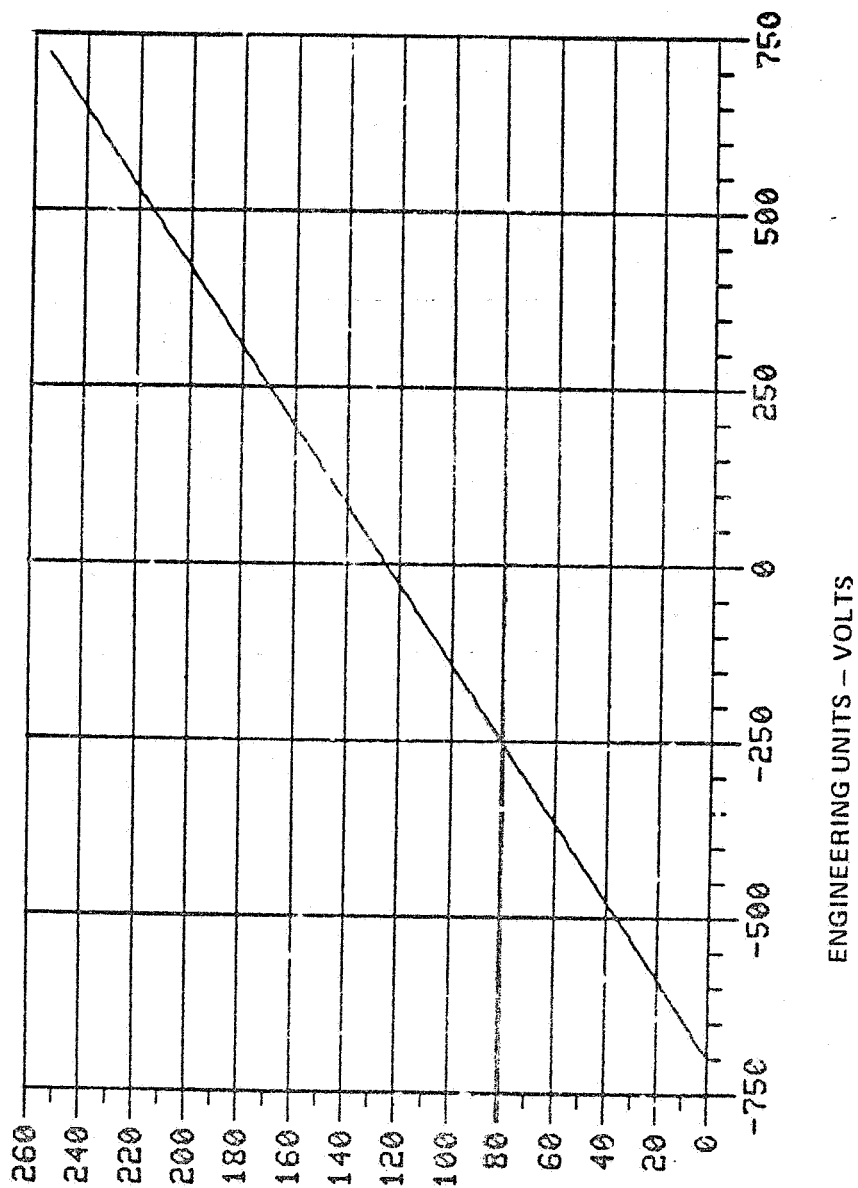
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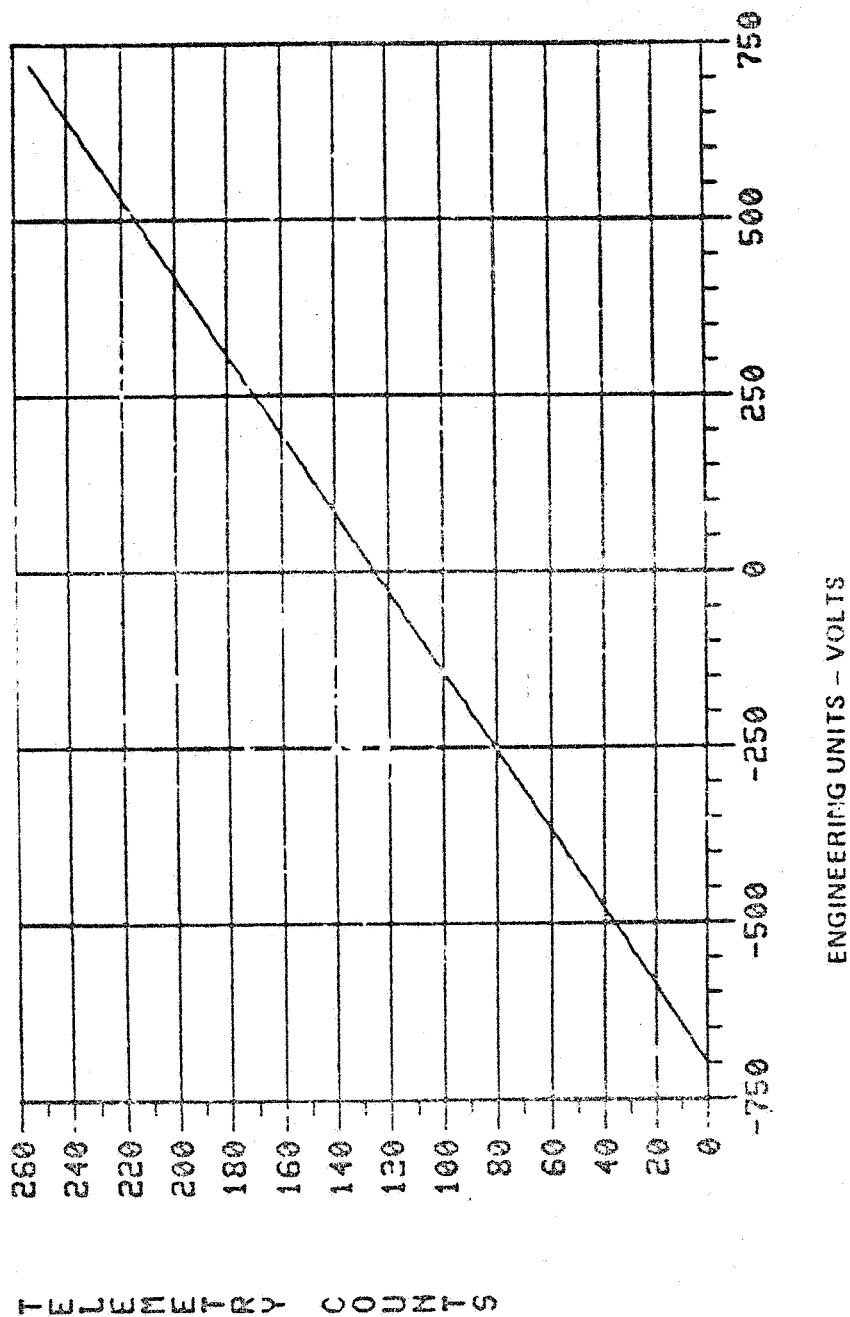
COUNTS VS ENGINEERING UNITS FOR PUDIFB1



TELEMETRY COUNTS

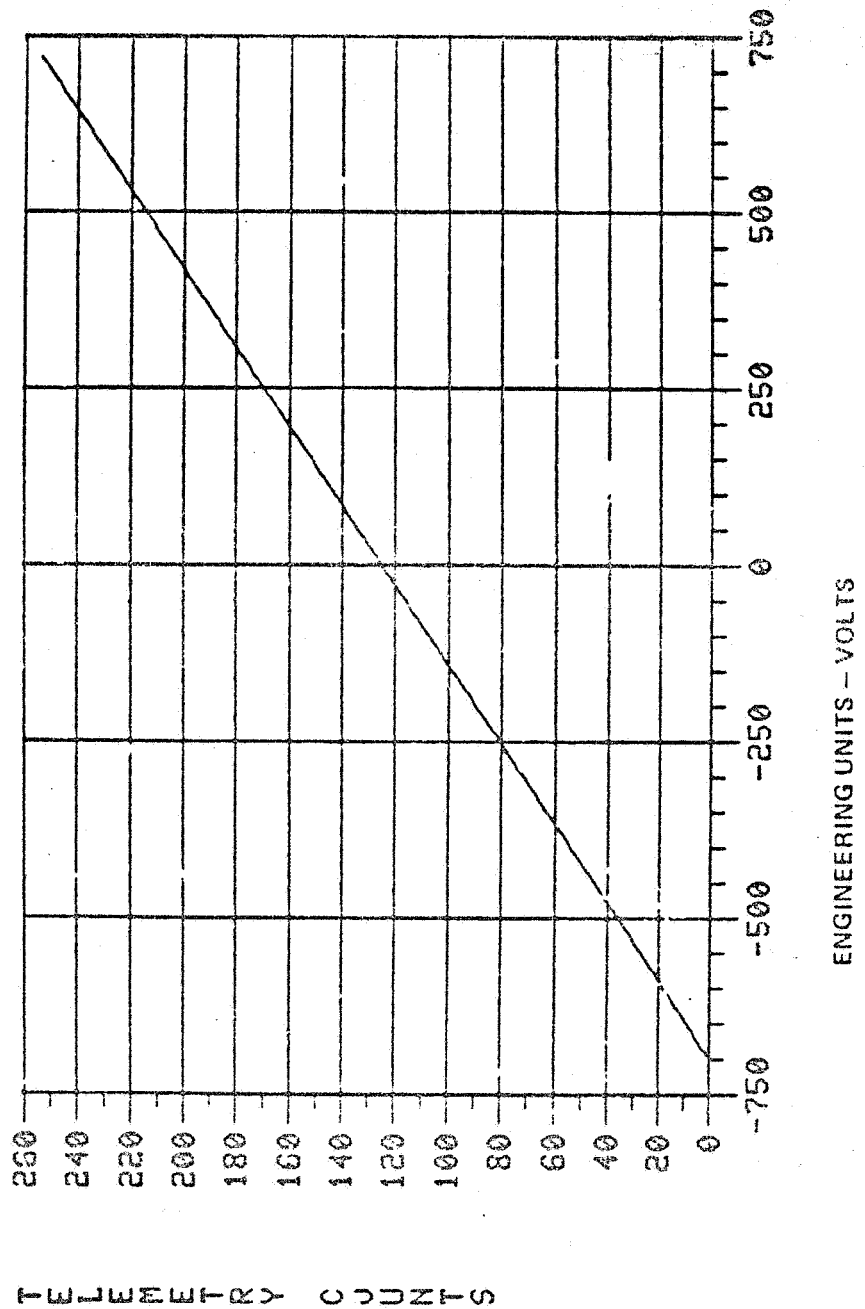
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COUNTS VS ENGINEERING UNITS FOR PUDIFB2



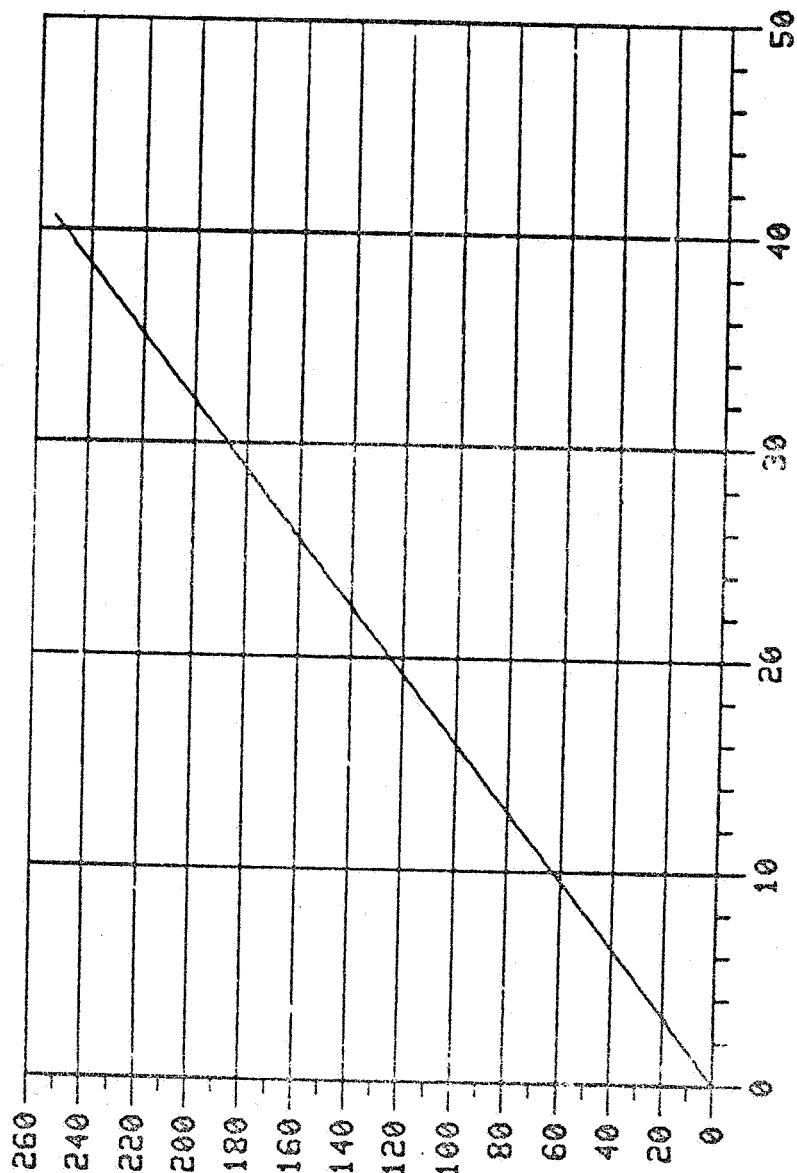
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COUNTS VS ENGINEERING UNITS FOR PUDIFB3



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COUNTS VS ENGINEERING UNITS FOR PULB

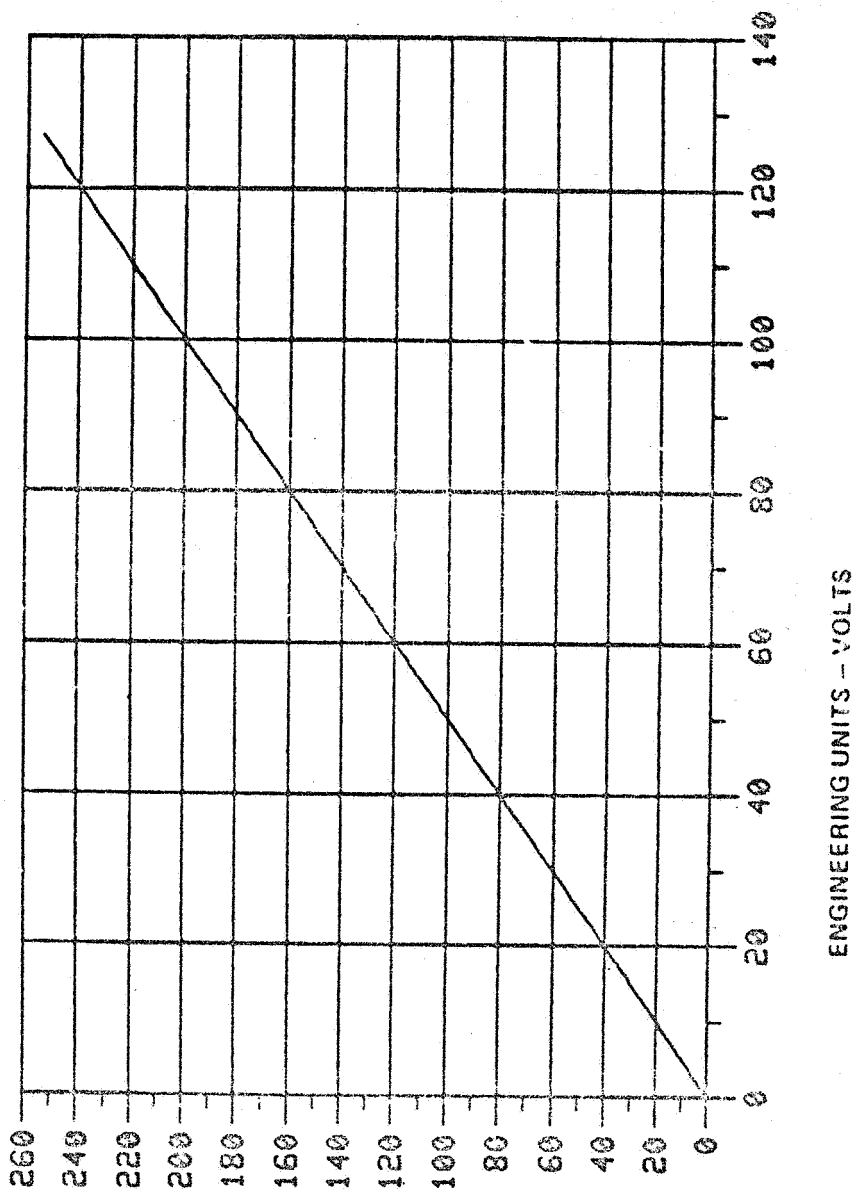


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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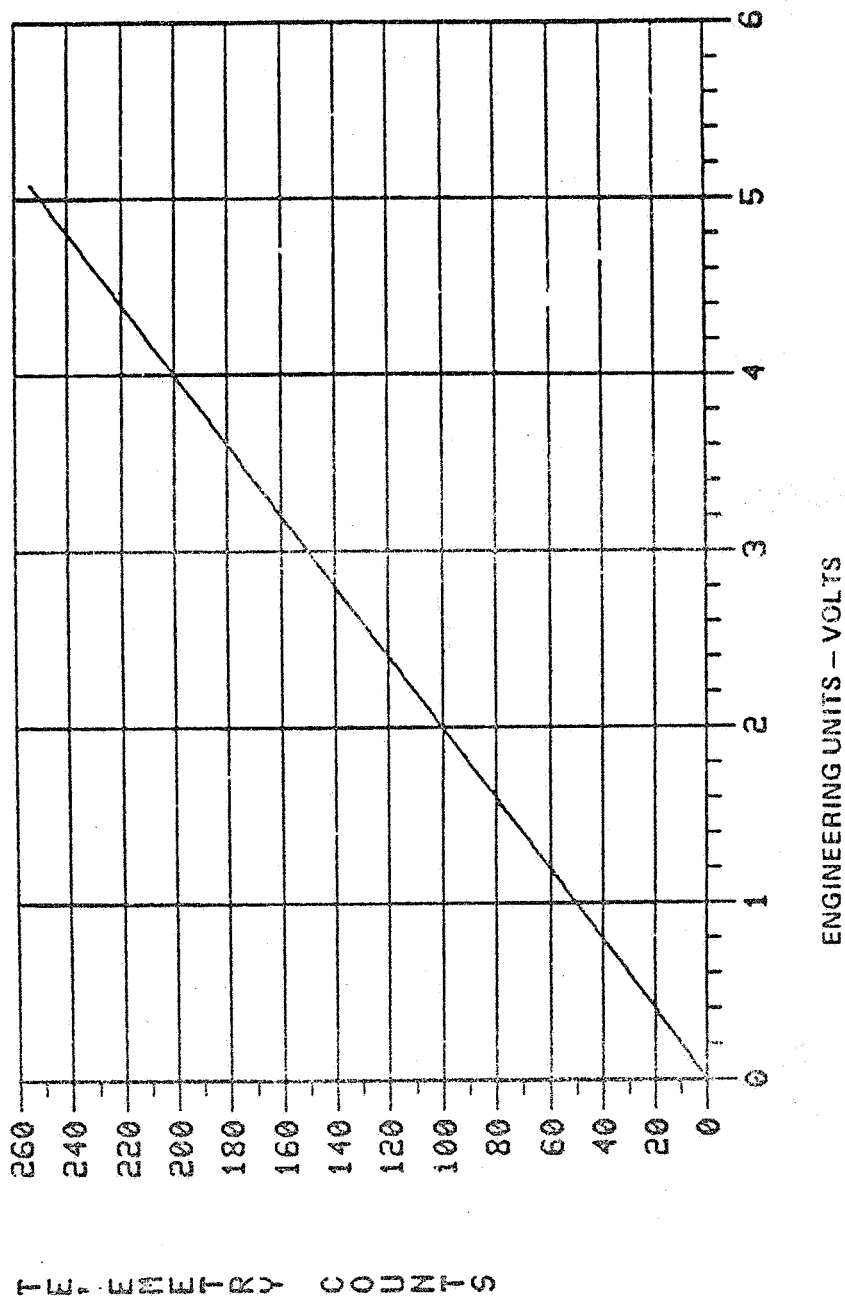
COUNTS VS ENGINEERING UNITS FOR PUSA



TELEMETRY COUNTS

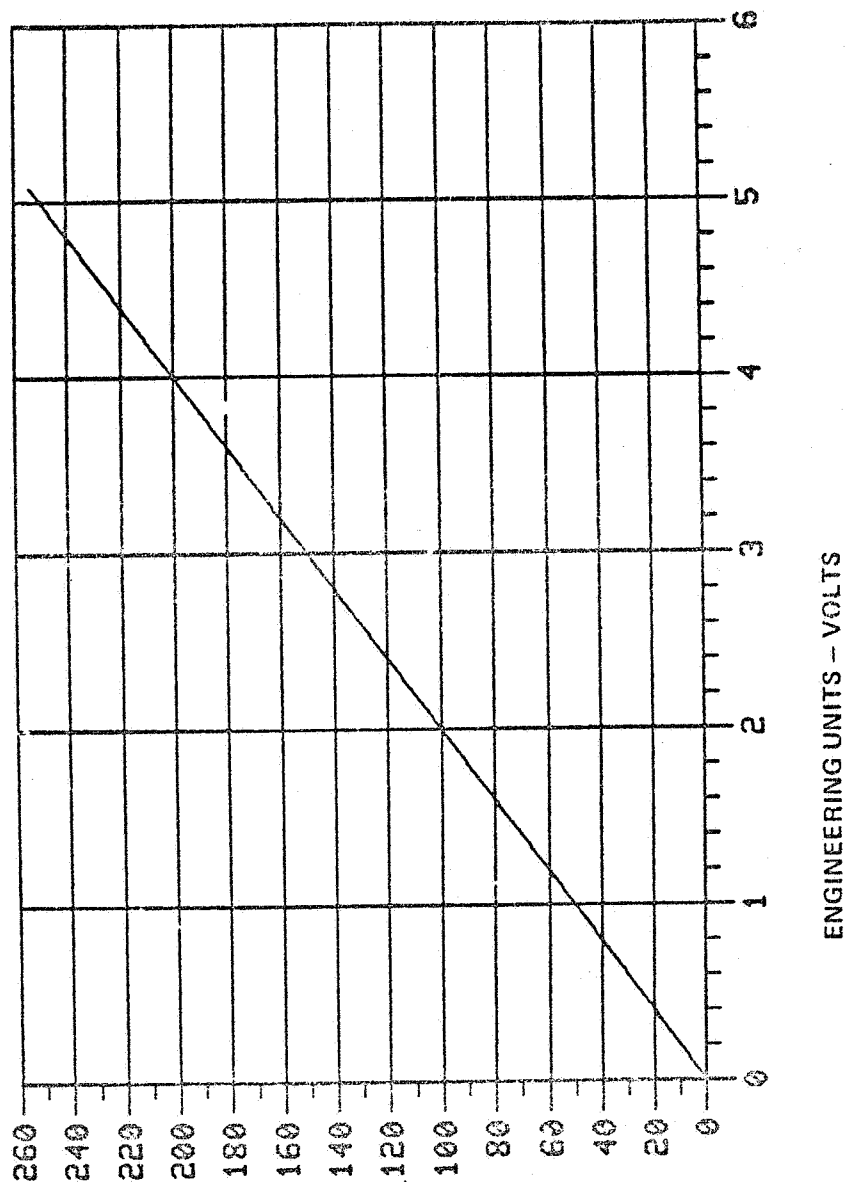
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COUNTS VS ENGINEERING UNITS FOR PUSCACA



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COUNTS VS ENGINEERING UNITS FOR PUSCAB



GEOMETRY COUNTS

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APPENDIX A.10

SOLAR ARRAY DRIVE AND POWER TRANSMISSION ASSEMBLY (SADAPTA)

TELEMETRY CALIBRATION DATA

See Appendix A.11 (PDU Telemetry Calibration Data) for SADAPTA telemetry calibration data.

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; PDU POINT DEF.

POINT YACSAIN	; SAFEHOLD A MACS SAFEHOLD SGNL YES/NO
POINT YACSBIN	; SAFEHOLD B MACS SAFEHOLD SGNL YES/NO
POINT YACSPWR	; FORMATTER/ADS POWER ON/OFF
POINT YCSSART	; SAFEHOLD A CSS SAD RATE CONTROL
POINT YCSSBRT	; SAFEHOLD B CSS SAD RATE CONTROL
POINT YDEPLOY	; PDU STATUS WORD NO. 1
POINT YDPLDIR	; DEPLOY MODE FWD/RETRACT
POINT YDPLINH	; DEPLOY INHIBIT LOGIC ENA/DISA
POINT YDPLRET	; SA/LH RETRACT ALLOW/DISALLOW
POINT YDPLSTA	; DEPLOY DRIVING/NOT DRIVING
POINT YDPUFWR	; DPU FULL ON/STANDBY
POINT YELARIU	; PDU A RIU A/B
POINT YELBRIU	; PDU B RIU A/B
POINT YFSBLNK	; TM FSRL LINKS PWR ENA/DISA
POINT YGPPSPWR	; GPS PWR ENA/DISA
POINT YHNGHTR	; HINGE HEATERS ON/OFF
POINT YIDXSGA	; SAFEHOLD A AT INDEX POSITION NO/YES
POINT YIDXSGB	; SAFEHOLD B AT INDEX POSITION NO/YES
POINT YLHPOS	; LOWER HINGE DEPLOY/NOT DEPLOY
POINT YLHSEL	; LOWER HINGE SELECT/NOT SELECT
POINT YLSMOD	; SAD MODE ORBIT/SAFEHOLD
POINT YMDASTA	; MOTOR DRV A (SAD/DOOM) ENA/DISA
POINT YMDBSTA	; MOTOR DRV B (SAD/DOOM) ENA/DISA
POINT YMSAPWR	; MSS PWR A ENA/DISA
POINT YMSPPWR	; MSS PWR B ENA/DISA
POINT YMSHTB	; MSS I/F B HTR ENA/DISA
POINT YPDUDIST	; PDU STATUS WORD NO. 3
POINT YPDUELE	; PDU ELECTRONICS A/B SELECT
POINT YSADCTL	; SAD RATES NOT CONTROLLING/CONTROLLING
POINT YSADINH	; SAD INHIBIT LOGIC ENA/DISA
POINT YSADRT	; SOLAR ARRAY DRIVE RATE
POINT YSADSH	; PDU STATUS WORD NO. 2
POINT YSAHSEL	; ARRAY HINGE SELECT/NOT SELECT
POINT YSALOC1	; SOLAR ARRAY POSITION NO. 1
POINT YSALOC2	; SOLAR ARRAY POSITION NO. 2
POINT YSAPOS	; SOLAR ARRAY DEPLOYED/NOT DEPLOYED
POINT YS3APWR	; DASB PWR A ENA/DISA
POINT YS3BPWR	; DASB PWR B ENA/DISA
POINT YSEGSW1	; SEG SWITCH 1 GT 180/LT 180 DEG
POINT YSEGSW2	; SEG SWITCH 2 GT 180/LT 180 DEG
POINT YSHAACCT	; SAFEHOLD A ACTIVATE DISA/ENA
POINT YSHACTL	; SAFEHOLD A CONTROLLING NO/YES
POINT YSHAMOD	; SAFEHOLD A EARTH SNSR/INERTIAL MODE
POINT YSHASTA	; SAFEHOLD A DISA/ENA
POINT YSHBACT	; SAFEHOLD B ACTIVATE DISA/ENA
POINT YSHBCTL	; SAFEHOLD B CONTROLLING NO/YES
POINT YSHRMOD	; SAFEHOLD B EARTH SNSR/INERTIAL MODE
POINT YSHBSTA	; SAFEHOLD B DISA/ENA

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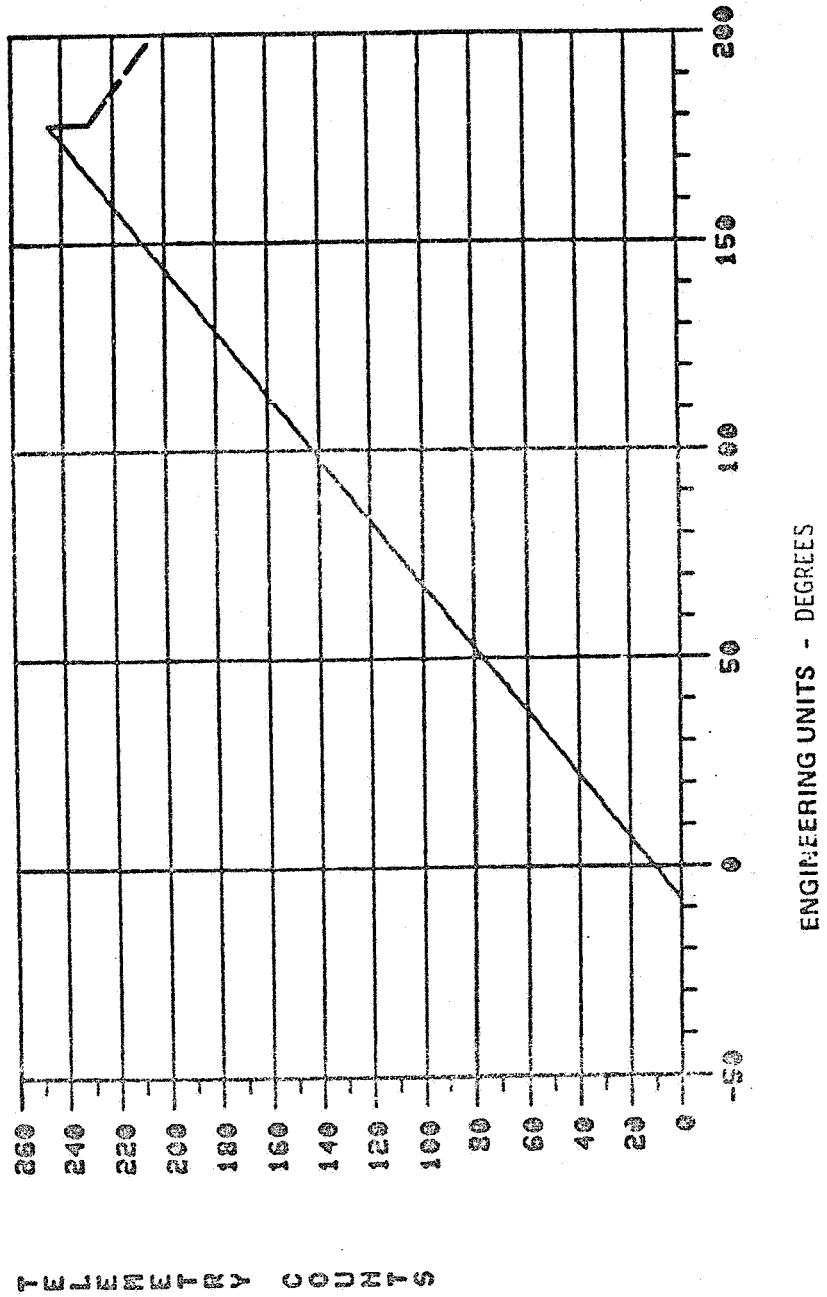
POINT YSHAHTR	; TM SMA HTR PWR ENA/DISA
POINT YSR2BUS	; SPARE RELAY 2 BUS A/BUS B
POINT YSR2PWR	; SPARE RELAY 2 ON/OFF
POINT YTICTOC	; CMD VERIFICATION TIC/TOC
POINT YTLOGIC	; PDU LOGIC TEMP
POINT YTM19V	; TM 18V/20V MONITOR
POINT YTHAPWR	; TM PWR A ENA/DISA
POINT YTM8PWR	; TM PWR B ENA/DISA
POINT YTPS	; PDU PWR SUPPLY TEMP
POINT YU3AHTR	; USS HTR 3A ENA/DISA
POINT YU3BHTR	; USS HTR 3B ENA/DISA
POINT YU3CBUS	; USS HTR 3C BUS A/BUS B
POINT YU3CHTR	; USS HTR 3C ENA/DISA
POINT YUHPOS	; UPPER HINGE DEPLOY/NOT DEPLOY
POINT YUHSEL	; UPPER HINGE SELECT/NOT SELECT
POINT YVOLT5	; +5V SUPPLY VOLTAGE
POINT YXS8YHT	; TM EXT STANDBY HTR ENA/DISA

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COUNTS VS ENGINEERING UNITS FOR YSALOC1

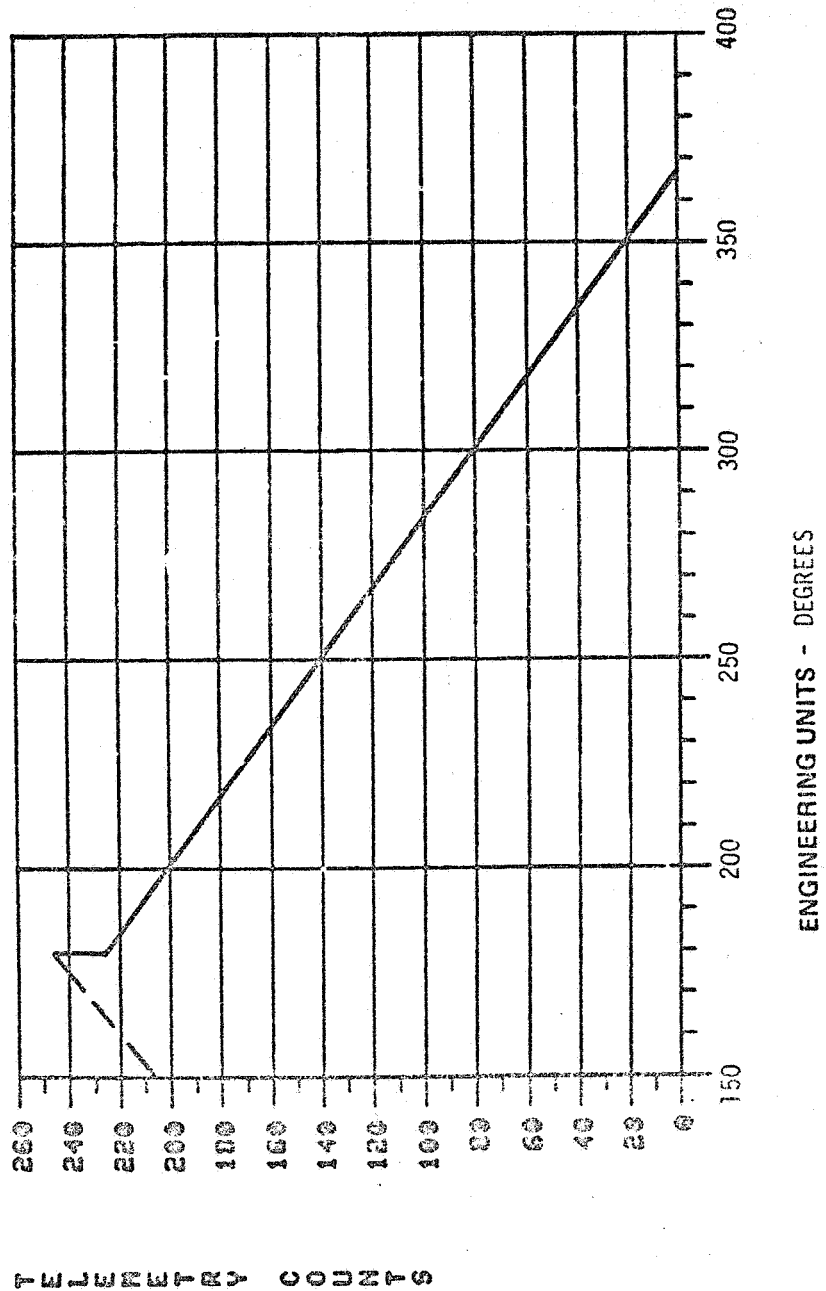
SEGMENT SWITCH OPEN, LOGIC '0'



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COUNTS VS ENGINEERING UNITS FOR YSALOC1

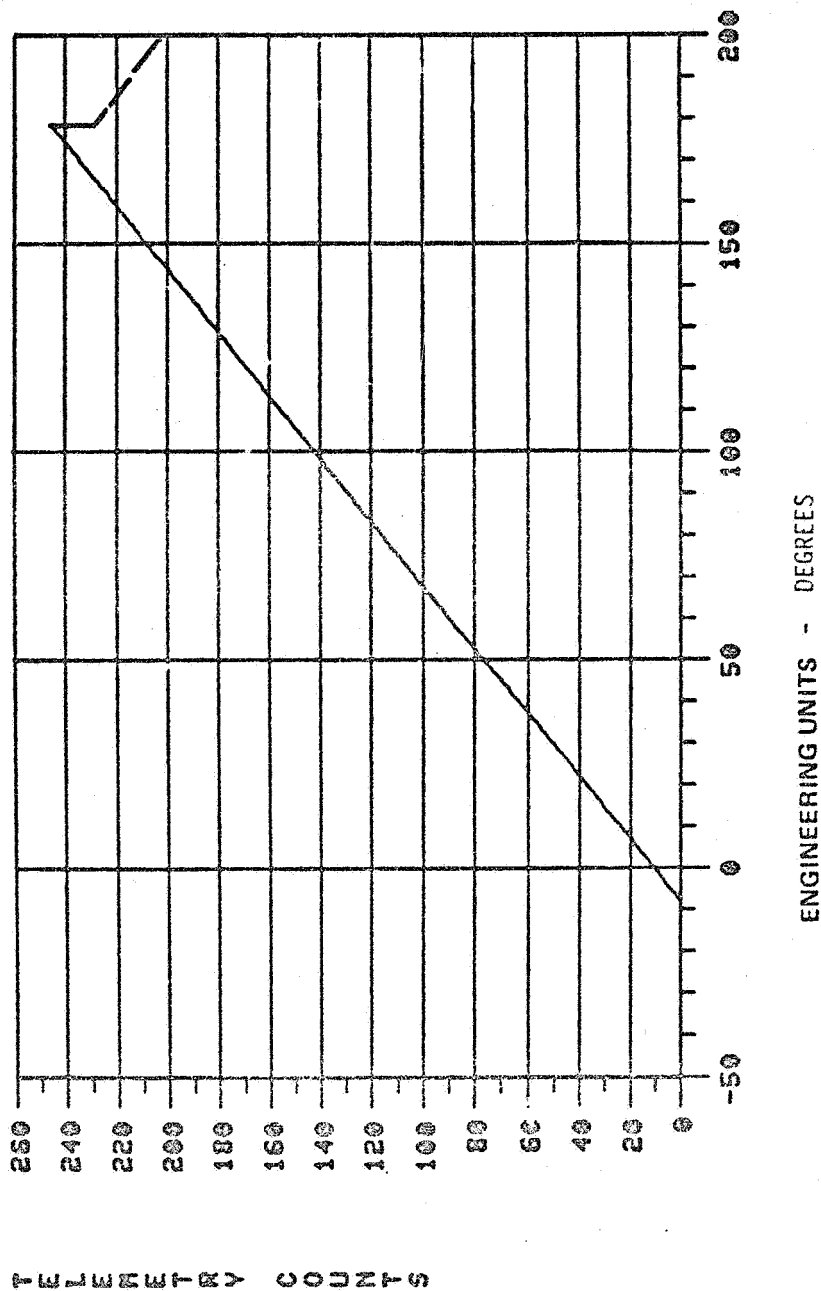
SEGMENT SWITCH CLOSED, LOGIC '1'



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COUNTS VS ENGINEERING UNITS FOR YSALOCB

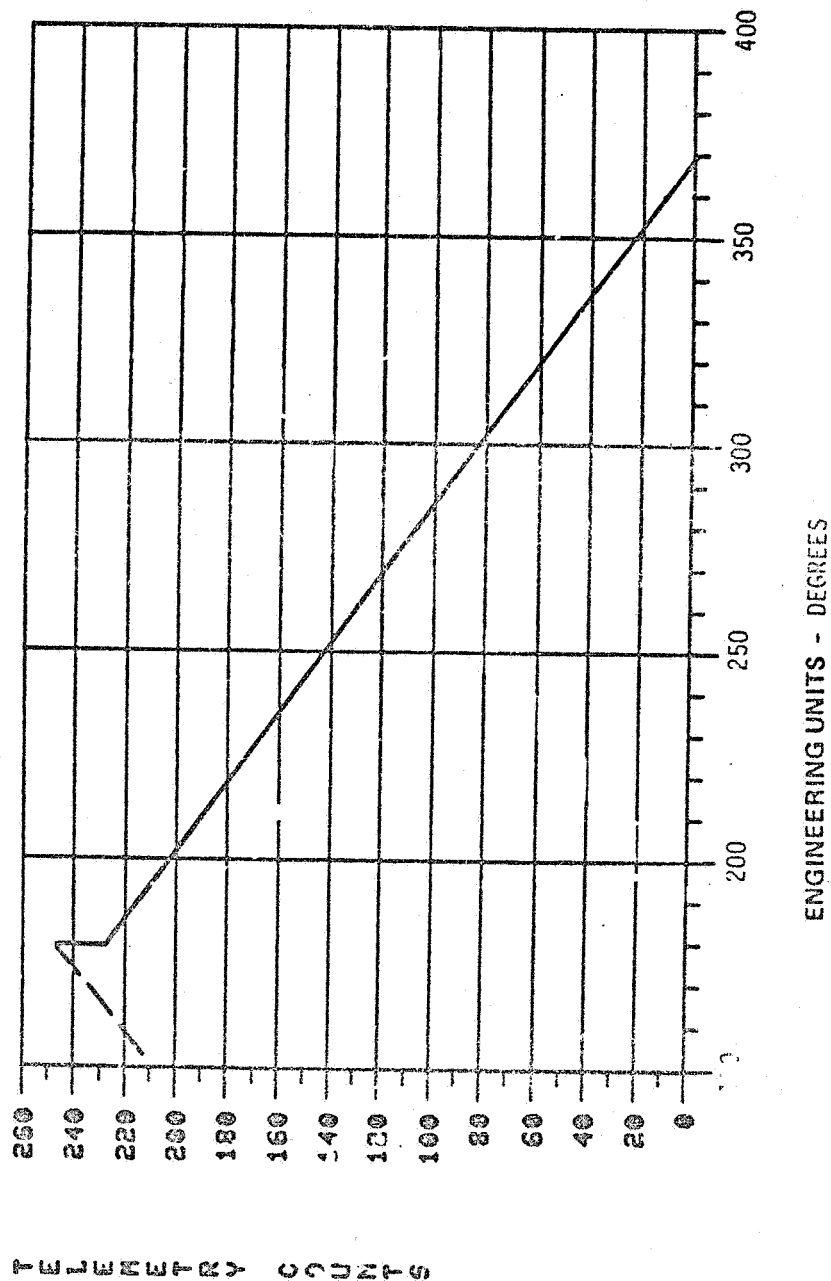
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COUNTS VS ENGINEERING UNITS FOR YSALOC2

SEGMENT SWITCH CLOSED, LOGIC '1'



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APPENDIX A.11

POWER DISTRIBUTION UNIT (PDU) TELEMETRY CALIBRATION DATA

The calibration curve coefficients for each telemetry point are controlled in the data base. They are listed along with the unit section number where the sensor is located. Tables showing the coefficients may be obtained from the data base administrator. The tables show telemetry volts (counts) vs. engineering units.

This appendix also shows telemetry calibration points for the SADAPTA, SARDJA, and BARDJA.

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PDU CONV. DEF.

POINT	YSALOC1	; SOLAR ARRAY POSITION NO. 1 w/Seg. SW. Open, (Closed)
COEFF	YSALOC1	, -8.0, 0.76 (369.209, -0.8372093)
POINT	YSALOC2	; SOLAR ARRAY POSITION NO. 2 w/Seg. SW. Open, (Closed)
COEFF	YSALOC2	, -8.0, 0.76, (369.209, -0.8372093)
POINT	YTLOGIC	; PDU LOGIC TEMP in deg. centigrade
COEFF	YTLOGIC	, .92447E+2, -.16960E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	YTM19V	; TM 18V/20V MONITOR in volts
COEFF	YTM19V	, 0.0, 0.02
POINT	YTPS	; PDU PWR SUPPLY TEMP in deg. centigrade
COEFF	YTPS	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	YVOLT5	; +5V SUPPLY VOLTAGE in volts
COEFF	YVOLT5	, 0.57539940E-2, 0.24021631E-01

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; PDU POINT DEF.

POINT YACSAIN
POINT YACSBIN
POINT YADSPWR
POINT YCSSART
POINT YCSSBRT
POINT YDEPLOY
POINT YDPLDIR
POINT YOPLINH
POINT YDPLRET
POINT YDPLSTA
POINT YDPUPWR
POINT YELARIU
POINT YELBRIU
POINT YFSBLNK
POINT YGPSPWR
POINT YHNGHTR
POINT YJUXSGA
POINT YIDXSGB
POINT YLHPOS
POINT YLHSEL
POINT YLSOMOD
POINT YMDASTA
POINT YMDBSTA
POINT YMSAPWR
POINT YMSPPWR
POINT YMSHTB
POINT YPDUDIST
POINT YPDUELE
POINT YSADCTL
POINT YSADINH
POINT YSADRT
POINT YSADSH
POINT YSAHSEL
POINT YSALOC1
POINT YSALOC2
POINT YSAPOS
POINT YSBAPWR
POINT YSEBPWR
POINT YSEGSW1
POINT YSEGSW2
POINT YSHAACIT
POINT YSHACTL
POINT YSHAMOD
POINT YSHASTA
POINT YSHBACT
POINT YSHRCTL
POINT YSHRMOD
POINT YSHBSTA

; SAFEHOLD A MACS SAFEHOLD SGNL YES/NO
; SAFEHOLD B MACS SAFEHOLD SGNL YES/NO
; FORMATTER/ADS POWER ON/OFF
; SAFEHOLD A CSS SAD RATE CONTROL
; SAFEHOLD B CSS SAD RATE CONTROL
; PDU STATUS WORD NO. 1
; DEPLOY MODE FWD/RETRACT
; DEPLOY INHIBIT LOGIC ENA/DISA
; SA/LH RETRACT ALLOW/DISALLOW
; DEPLOY DRIVING/NOT DRIVING
; DPU FULL ON/STANDBY
; PDU A RIU A/B
; PDU B RIU A/B
; TM FSRL LINKS PWR ENA/DISA
; GPS PWR ENA/DISA
; HINGE HEATERS ON/OFF
; SAFEHOLD A AT INDEX POSITION NO/YES
; SAFEHOLD B AT INDEX POSITION NO/YES
; LOWER HINGE DEPLOY/NOT DEPLOY
; LOWER HINGE SELECT/NOT SELECT
; SAD MODE ORBIT/SAFEHOLD
; MOTOR DRV A (SAD/DOCK) ENA/DISA
; MOTOR DRV B (SAD/DOCK) ENA/DISA
; MSS PWR A ENA/DISA
; MSS PWR B ENA/DISA
; MSS I/F B HTR ENA/DISA
; PDU STATUS WORD NO. 3
; PDU ELECTRONICS A/B SELECT
; SAD RATES NOT CONTROLLING/CONTROLLING
; SAD INHIBIT LOGIC ENA/DISA
; SOLAR ARRAY DRIVE RATE
; PDU STATUS WORD NO. 2
; ARRAY HINGE SELECT/NOT SELECT
; SOLAR ARRAY POSITION NO. 1
; SOLAR ARRAY POSITION NO. 2
; SOLAR ARRAY DEPLOYED/NOT DEPLOYED
; DASB PWR A ENA/DISA
; DASB PWR B ENA/DISA
; SEG SWITCH 1 GT 180/LT 180 DEG
; SEG SWITCH 2 GT 180/LT 180 DEG
; SAFEHOLD A ACTIVATE DISA/ENA
; SAFEHOLD A CONTROLLING NO/YES
; SAFEHOLD A EARTH SNSR/INERTIAL MODE
; SAFEHOLD A DISA/ENA
; SAFEHOLD B ACTIVATE DISA/ENA
; SAFEHOLD B CONTROLLING NO/YES
; SAFEHOLD B EARTH SNSR/INERTIAL MODE
; SAFEHOLD B DISA/ENA

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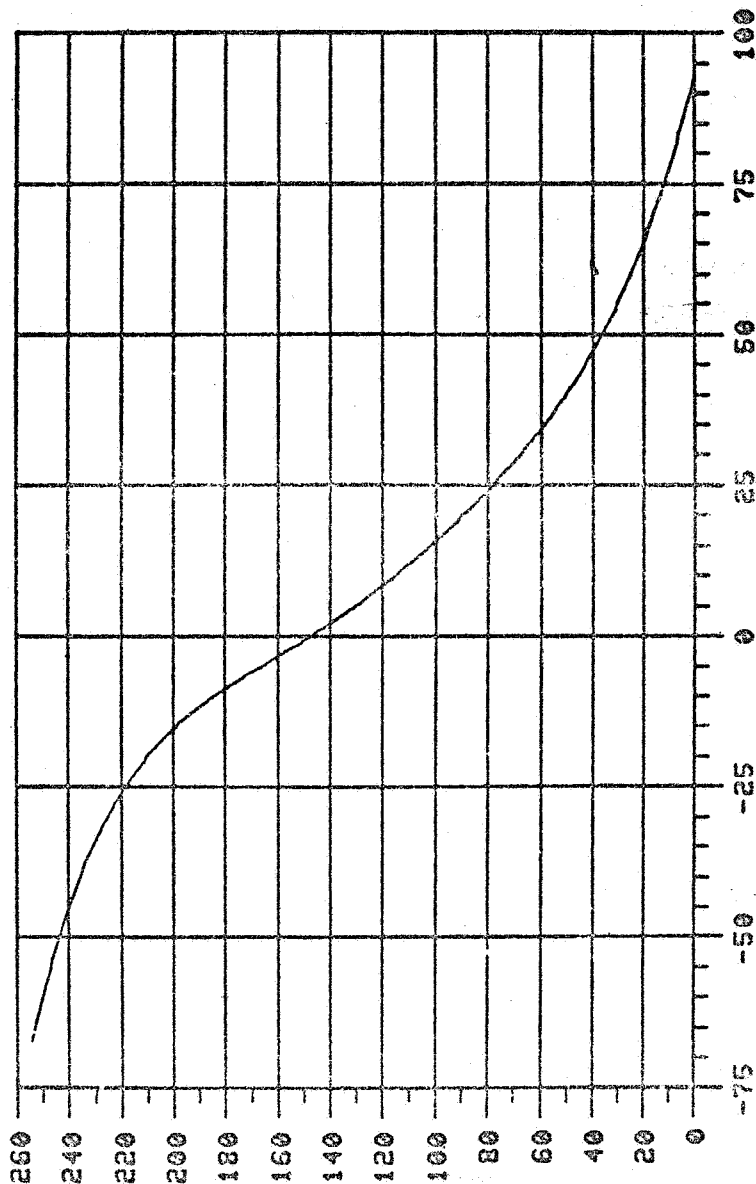
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POINT YSMAHTR
POINT YSR2BUS
POINT YSR2PWR
POINT YTICTOC
POINT YTLOGIC
POINT YTM19V
POINT YTHAPWR
POINT YTHSPWR
POINT YTPS
POINT YU3AHTR
POINT YU3BHTR
POINT YU3CBUS
POINT YU3CHTR
POINT YUHPOS
POINT YUHSEL
POINT YVOLTS
POINT YXSBYHT

; TM SMA HTR PWR ENA/DISA
; SPARE RELAY 2 BUS A/BUS B
; SPARE RELAY 2 ON/OFF
; CMD VERIFICATION TIC/TOC
; PDU LOGIC TEMP
; TM 18V/20V MONITOR
; TM PWR A ENA/DISA
; TM PWR B ENA/DISA
; PDU PWR SUPPLY TEMP
; USS HTR 3A ENA/DISA
; USS HTR 3B ENA/DISA
; USS HTR 3C BUS A/RUS B
; USS HTR 3C ENA/DISA
; UPPER HINGE DEPLOY/NOT DEPLOY
; UPPER HINGE SELECT/NOT SELECT
; +5V SUPPLY VOLTAGE
; TM EXT STANDBY HTR ENA/DISA

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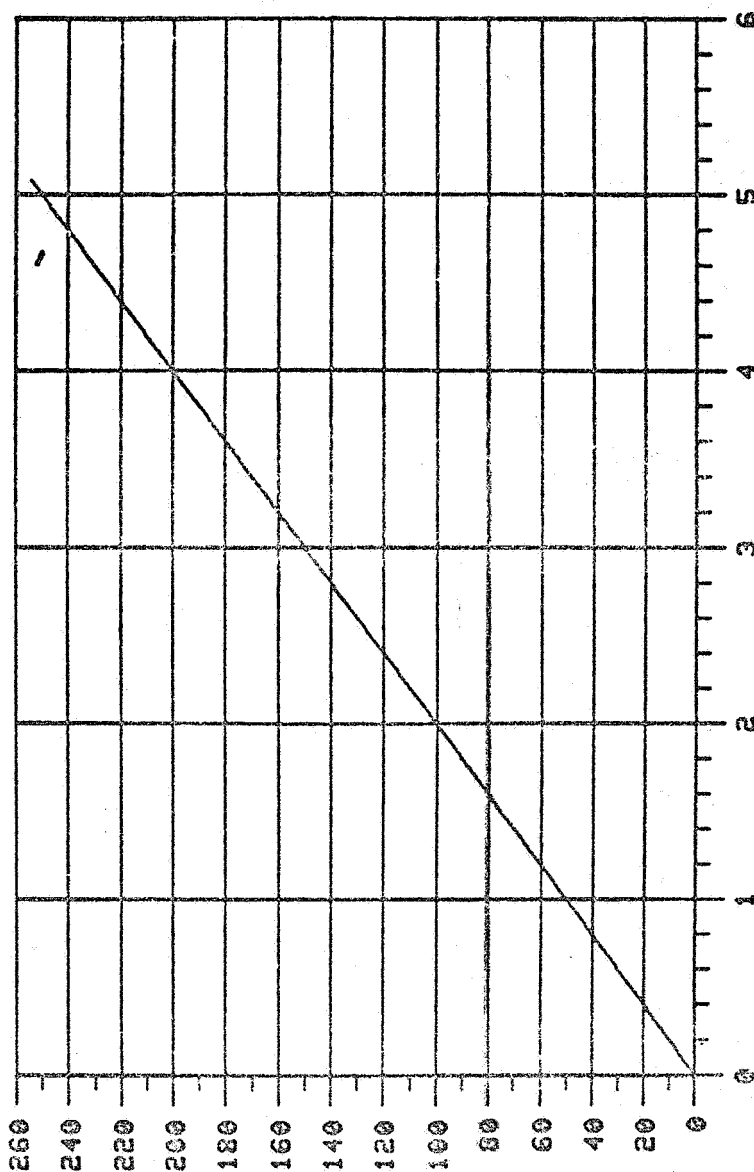


ENGINEERING UNITS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR YTH19U

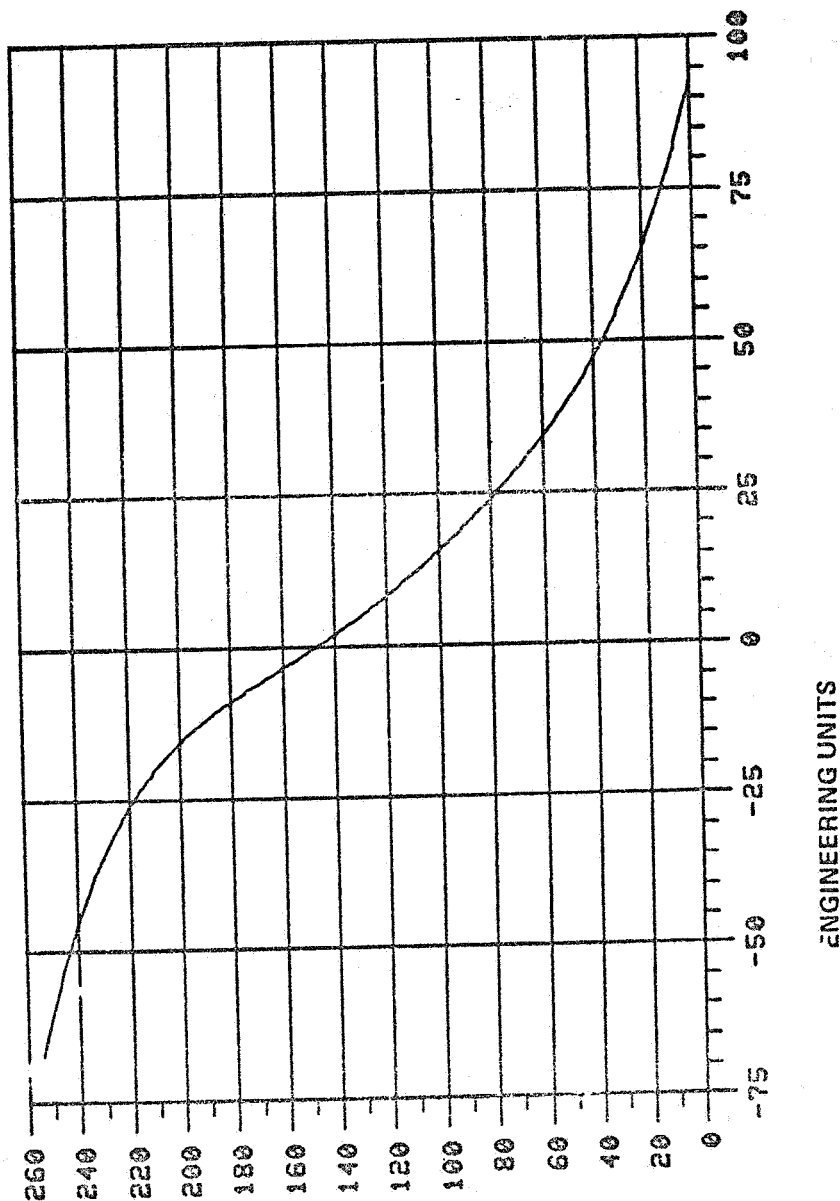


TELEMETRY COUNTS

ENGINEERING UNITS

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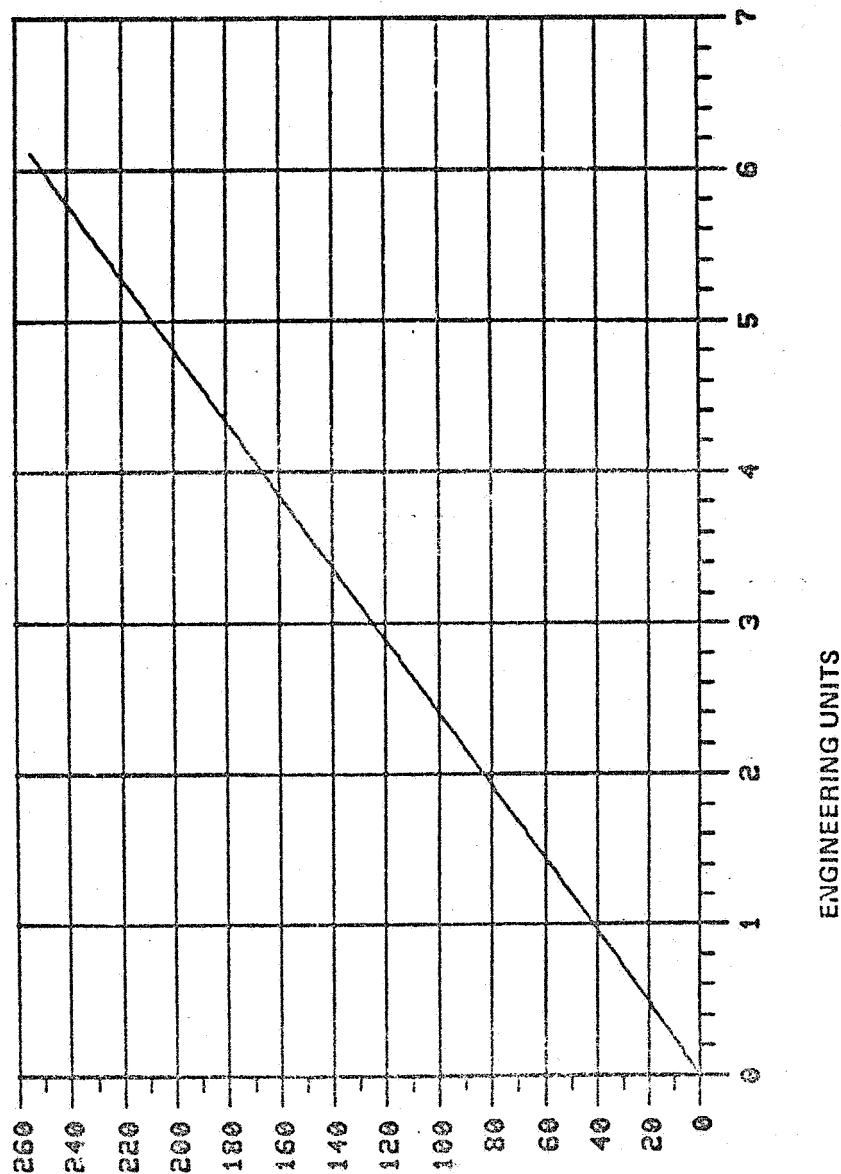
COUNTS VS ENGINEERING UNITS FOR YTPS



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR YUOLTS



TELEMETRY COUNTS

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DIGITAL PROCESSING UNIT (DPU) TELEMETRY CALIBRATION DATA

The calibration curve coefficients for each telemetry point are controlled in the data base. They are listed along with the unit section number where the sensor is located. Tables showing the coefficients may be obtained from the data base administrator. The tables show telemetry volts (counts) vs. engineering units.

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DPU CONV. DEF.

; DASB POINT DEF.
; DPU POINT DEF.
POINT DCDHTMT ; C/DH-TM DATA TRANSFER YES/NO
POINT DPUTEMP ; DPU TEMP in deg. centigrade
COEFF DPUTEMP , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8

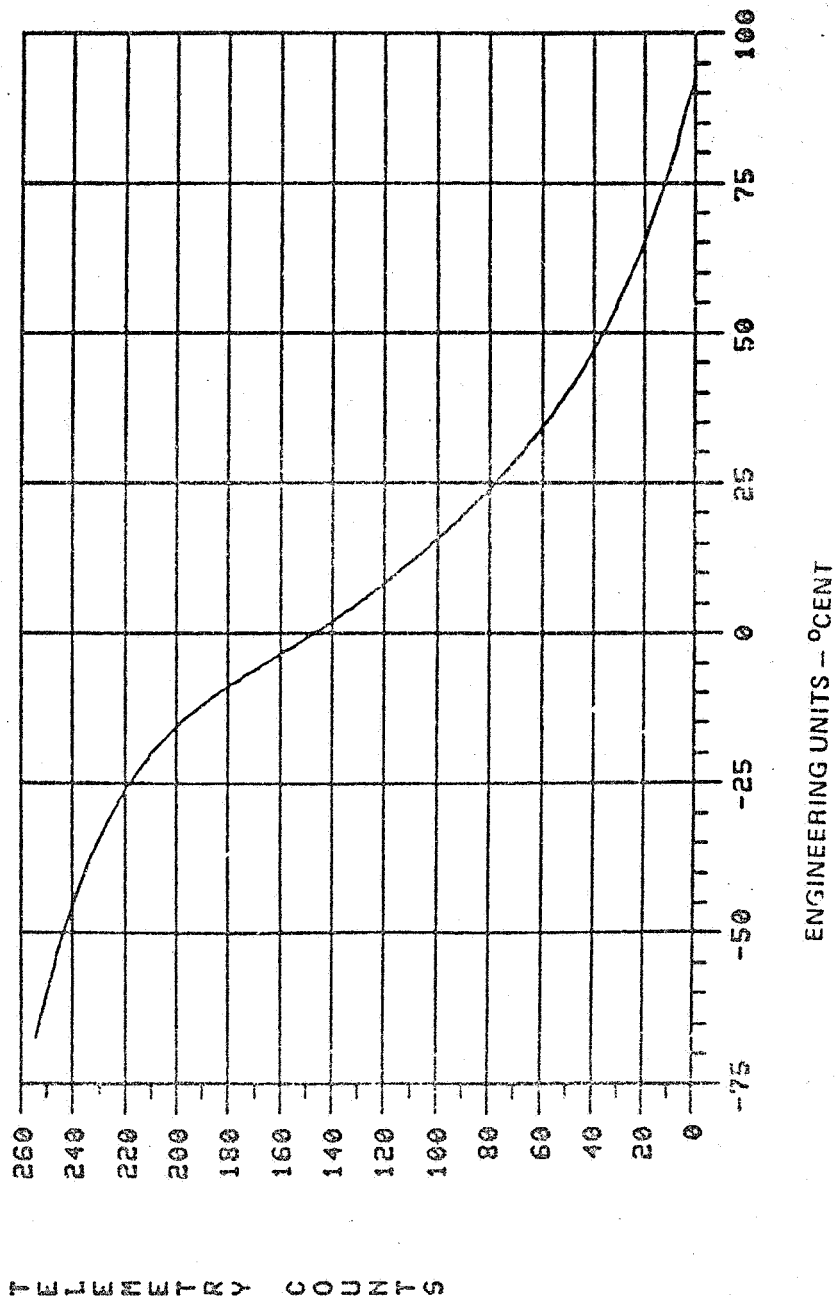
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COUNTS VS ENGINEERING UNITS FOR DPUTEMP



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APPENDIX A.13

WIDEBAND COMMUNICATION SUBSYSTEM (WBCS) TELEMETRY CALIBRATION DATA

The calibration curve coefficients for each telemetry point are controlled in the data base. They are listed along with the unit section number where the sensor is located. Tables showing the coefficients may be obtained from the data base administrator. The tables show telemetry volts (counts) vs. engineering units.

: WBCS POINT DEF.

```

POINT WANTAZL ; WORDS 1/2 GDA AZIM POS in
COEFF WANTAZL , 0,.02197265
POINT WANTAZLS ; GDE REDUND SERIAL WORDS 1 AND 2 in
COEFF WANTAZLS , 0,.02197265
POINT WANTELL ; WORDS 3/4 GDA ELEV POS in
COEFF WANTELL , 0,.02197265
POINT WANTELLS ; GDE REDUND SERIAL WORDS 3 AND 4 in
COEFF WANTELLS , 0,.02197265
POINT WATCHBT ; RFC KU AUTOTRACK COMBINER FEED ASSY TEMP in deg. centigrade
COEFF WATCHBT , .85324E+2,-.11854E+1,.61780E-2,-.12972E-4,-.51630E-8
POINT WATDNCNT ; RFC AT DOWNCONVERTER TEMP +Y PANEL in deg. centigrade
COEFF WATDNCNT , .85324E+2,-.11854E+1,.61780E-2,-.12972E-4,-.51630E-8
POINT WATFST ; RFC AUTOTRACK FREQ SOURCE TEMP +Y PANEL in deg. centigrade
COEFF WATFST , .85324E+2,-.11854E+1,.61780E-2,-.12972E-4,-.51630E-8
POINT WATRCVRT ; WBM AUTOTRACK RCVR TEMP -X PANEL in deg. centigrade
COEFF WATRCVRT , .85324E+2,-.11854E+1,.61780E-2,-.12972E-4,-.51630E-8
POINT WDSUMXT ; WBM PCU/DSU TEMP (-X PANEL) in deg. centigrade
COEFF WDSUMXT , .85324E+2,-.11854E+1,.61780E-2,-.12972E-4,-.51630E-8
POINT WGDAMTT ; RFC PANEL (GDA MOUNT) TEMP in deg. centigrade
COEFF WGDAMTT , .85324E+2,-.11854E+1,.61780E-2,-.12972E-4,-.51630E-8
POINT WGDET ; WBM GIMBAL DRIVE ELECTRONICS TEMP in deg. centigrade
COEFF WGDET , .85324E+2,-.11854E+1,.61780E-2,-.12972E-4,-.51630E-8
POINT WKFST ; WBM KU FREQ SOURCE/DSU TEMP DSU ; -X PANEL in deg. centigrade
COEFF WKFST , .85324E+2,-.11854E+1,.61780E-2,-.12972E-4,-.51630E-8
POINT WKTWTAT ; RFC KU-TWTA SIDE TEMP -Y PANEL in deg. centigrade
COEFF WKTWTAT , .85324E+2,-.11854E+1,.61780E-2,-.12972E-4,-.51630E-8
POINT WKUDIPT ; RFC KU DIPLEXER TEMP in deg. centigrade
COEFF WKUDIPT , .85324E+2,-.11854E+1,.61780E-2,-.12972E-4,-.51630E-8
POINT WKUPCONT ; RFC KU UPCONVERTER TEMP in deg. centigrade
COEFF WKUPCONT , .85324E+2,-.11854E+1,.61780E-2,-.12972E-4,-.51630E-8
POINT WNRFEEDT ; RFC PANEL (NEAR FEED) TEMP in deg. centigrade
COEFF WNRFEEDT , .85324E+2,-.11854E+1,.61780E-2,-.12972E-4,-.51630E-8
POINT WPATAZER ; AUTOTRACK PLVR PRIMARY AZIM ERROR in
COEFF WPATAZER , 0.0,0.02
POINT WPATELER ; AUTOTRACK RCVR PRIMARY ELEV ERROR in
COEFF WPATELER , 0.0,0.02
POINT WPATRSS ; AUTOTRACK RCVR PRI SIGNAL STRENGTH in
COEFF WPATRSS , -.51053E+3,.12322E+2,-.17749E00,.12545E-2,-.43182E-5,.58167E-8
POINT WPAZMOTT ; GDA AZIMUTH MOTOR TEMP PRIME in deg. centigrade
COEFF WPAZMOTT , .85324E+2,-.11854E+1,.61780E-2,-.12972E-4,-.51630E-8
POINT WPELMOTT ; GDA ELEVATION MOTOR TEMP PRIME in deg. centigrade
COEFF WPELMOTT , .85324E+2,-.11854E+1,.61780E-2,-.12972E-4,-.51630E-8
POINT WPKBUSI ; KU TWTA PRIMARY BUS CURRENT in
COEFF WPKBUSI , 0.0000E+00,0.0360 E-01
POINT WPKHELI ; KU TWTA PRIMARY HELIX CURRENT in
COEFF WPKHELI , .41023E-2,.10752E-1,.10398E-3,-.62325E-6,.16029E-8,-.14163E-11

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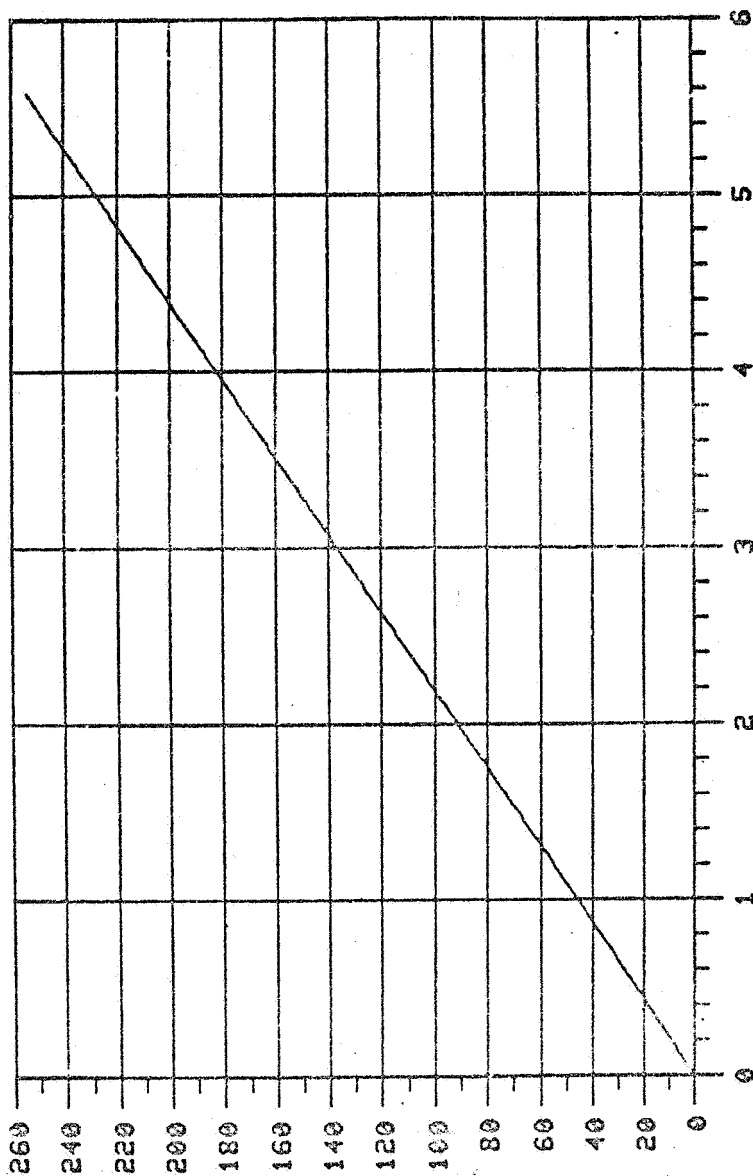

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POINT	WPKTWTBT	; RFC KU-TWTA BASEPLATE TEMP PRIME in deg. centigrade
COEFF	WPKTWTBT	, .85324E+2, -.11854E+1, .61780E-2, -.12972E-4, -.51630E-8
POINT	WPPWCONV	; PWR CONV SEC VOLT MON, PRIMARY in
COEFF	WPPWCONV	, 0.0.0347
POINT	WPSKMODT	; WBM UQPSK MODULATOR TEMP -X PANEL in deg. centigrade
COEFF	WPSKMODT	, .85324E+2, -.11854E+1, .61780E-2, -.12972E-4, -.51630E-8
POINT	WPSUPYT	; WBM PSU TEMP (+Y PANEL) in deg. centigrade
COEFF	WPSUPYT	, .85324E+2, -.11854E+1, .61780E-2, -.12972E-4, -.51630E-8
POINT	WPXBUSI	; X TWTA PRIMARY BUS CURRENT in
COEFF	WPXBUSI	, 0.6757E-1, .37358E-1, -.1924E-3, .9532E-6, -.2251E-8, .2108E-11
POINT	WPXCOVT	; WBM +X COVER TEMP in deg. centigrade
COEFF	WPXCOVT	, .85324E+2, -.11854E+1, .61780E-2, -.12972E-4, -.51630E-8
POINT	WPXHELI	; X TWTA PRIMARY HELIX CURRENT in
COEFF	WPXHELI	, .41023E-2, .10752E-1, .10398E-3, -.62325E-6, .16029E-8, -.1416E-11
POINT	WPXTWTAT	; WBM X-TWTA BASEPLATE TEMP PRIME in deg. centigrade
COEFF	WPXTWTAT	, .85324E+2, -.11854E+1, .61780E-2, -.12972E-4, -.51630E-8
POINT	WPZPNLT	; WBM +Z PANEL TEMP in deg. centigrade
COEFF	WPZPNLT	, .85324E+2, -.11854E+1, .61780E-2, -.12972E-4, -.51630E-8
POINT	WRATAZER	; AUTOTRACK RCVR REDUNDANT AZIM ERROR in
COEFF	WRATAZER	, 0.0.0.02
POINT	WRATELER	; AUTOTRACK RCVR REDUNDANT ELEV ERROR in
COEFF	WRATELER	, 0.0.0.02
POINT	WRATRSS	; AUTOTRACK RCVR RED SIGNAL STRENGTH in
COEFF	WRATRSS	, -.89125E+3, .24706E+2, -.33537E00, .22389E-2, -.73217E-5, .94115E-8
POINT	WRAZMOTT	; GDA AZIMUTH MOTOR TEMP REDUNDANT in
COEFF	WRAZMOTT	, .85324E+2, -.11854E+1, .61780E-2, -.12972E-4, -.51630E-8
POINT	WRELMOTT	; GDA ELEVATION MOTOR TEMP REDUNDANT in deg. centigrade
COEFF	WRELMOTT	, .85324E+2, -.11854E+1, .61780E-2, -.12972E-4, -.51630E-8
POINT	WRIU9AT	; RIU 09A TEMP in deg. centigrade
COEFF	WRIU9AT	, .1234E+3, -.2073E+1, .2266E-1, -.1514E-3, .5174E-6, -.7163E-9
POINT	WRIU9BT	; RIU 09B TEMP in deg. centigrade
COEFF	WRIU9BT	, .1234E+3, -.2073E+1, .2266E-1, -.1514E-3, .5174E-6, -.7163E-9
POINT	WRKBUSI	; KU TWTA REDUNDANT BUS CURRENT in
COEFF	WRKBUSI	, 0.0000E+00, 0.0360E-01
POINT	WRKHELI	; KU TWTA REDUNDANT HELIX CURRENT in
COEFF	WRKHELI	, .41023E-2, .10752E-1, .10398E-3, -.62325E-6, .16029E-8, -.14163E-11
POINT	WRKTWTBT	; RFC KU-TWTA BASEPLATE TEMP RED in deg. centigrade
COEFF	WRKTWTBT	, .85324E+2, -.11854E+1, .61780E-2, -.12972E-4, -.51630E-8
POINT	WRPWCONV	; PWR CONV SEC VOLT MON, REDUNDANT in
COEFF	WRPWCONV	, 0.0.0347
POINT	WRXBUSI	; X TWTA REDUNDANT BUS CURRENT in
COEFF	WRXBUSI	, .6757E-1, .37358E-1, -.1924E-3, .9532E-6, -.2251E-8, .2108E-11
POINT	WRXHELI	; X TWTA REDUNDANT HELIX CURRENT in
COEFF	WRXHELI	, .41023E-2, .10752E-1, .10398E-3, -.62325E-6, .16029E-8, -.1416E-11
POINT	WRXTWTAT	; WBM X-TWTA BASEPLATE TEMP RED in deg. centigrade
COEFF	WRXTWTAT	, .85324E+2, -.11854E+1, .61780E-2, -.12972E-4, -.51630E-8
POINT	WSPARE1T	; RFC SPARE TEMP 1 in deg. centigrade
COEFF	WSPARE1T	, .85324E+2, -.11854E+1, .61780E-2, -.12972E-4, -.51630E-8
POINT	WSPARE2T	; RFC SPARE TEMP 2 in deg. centigrade
COEFF	WSPARE2T	, .85324E+2, -.11854E+1, .61780E-2, -.12972E-4, -.51630E-8
POINT	WTWTSIDT	; WBM X-TWTA SIDE TEMP in deg. centigrade
COEFF	WTWTSIDT	, .85324E+2, -.11854E+1, .61780E-2, -.12972E-4, -.51630E-8
POINT	WXFST	; WBM X-BAND FREQ SOURCE TEMP -X PANEL in deg. centigrade
COEFF	WXFST	, .85324E+2, -.11854E+1, .61780E-2, -.12972E-4, -.51630E-8

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COUNTS VS ENGINEERING UNITS FOR UANTAZL

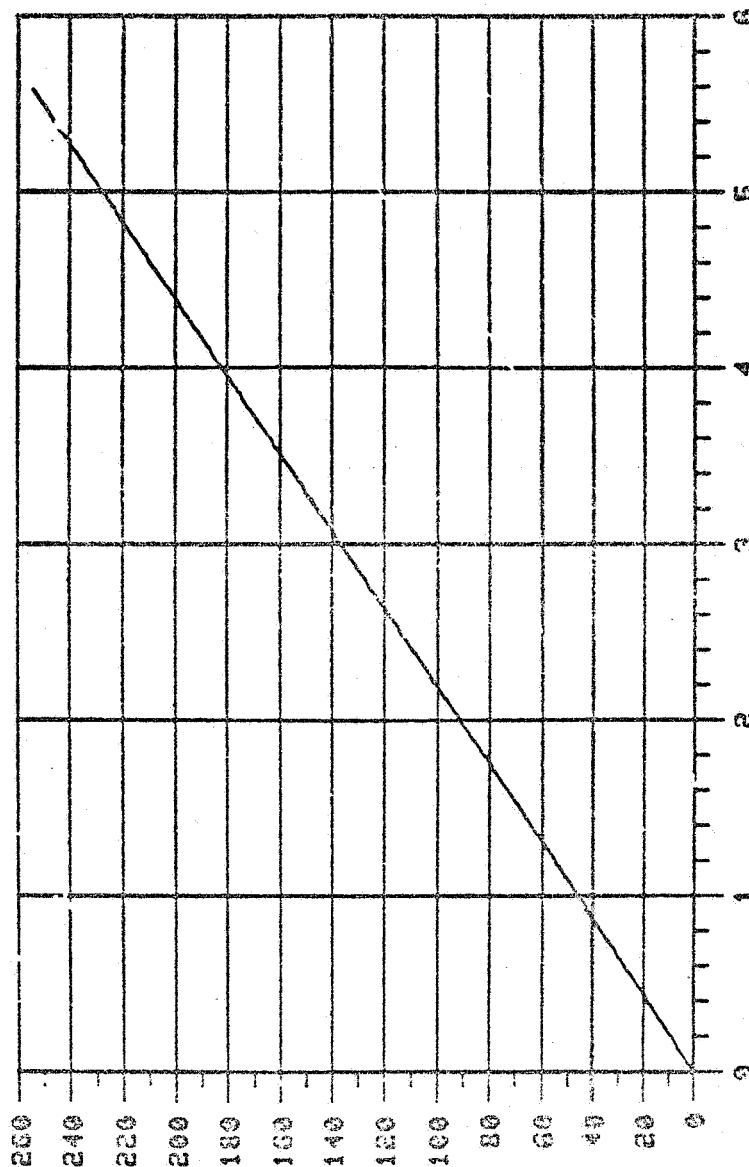


ENGINEERING UNITS - DEGREES

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR WANTAZLS

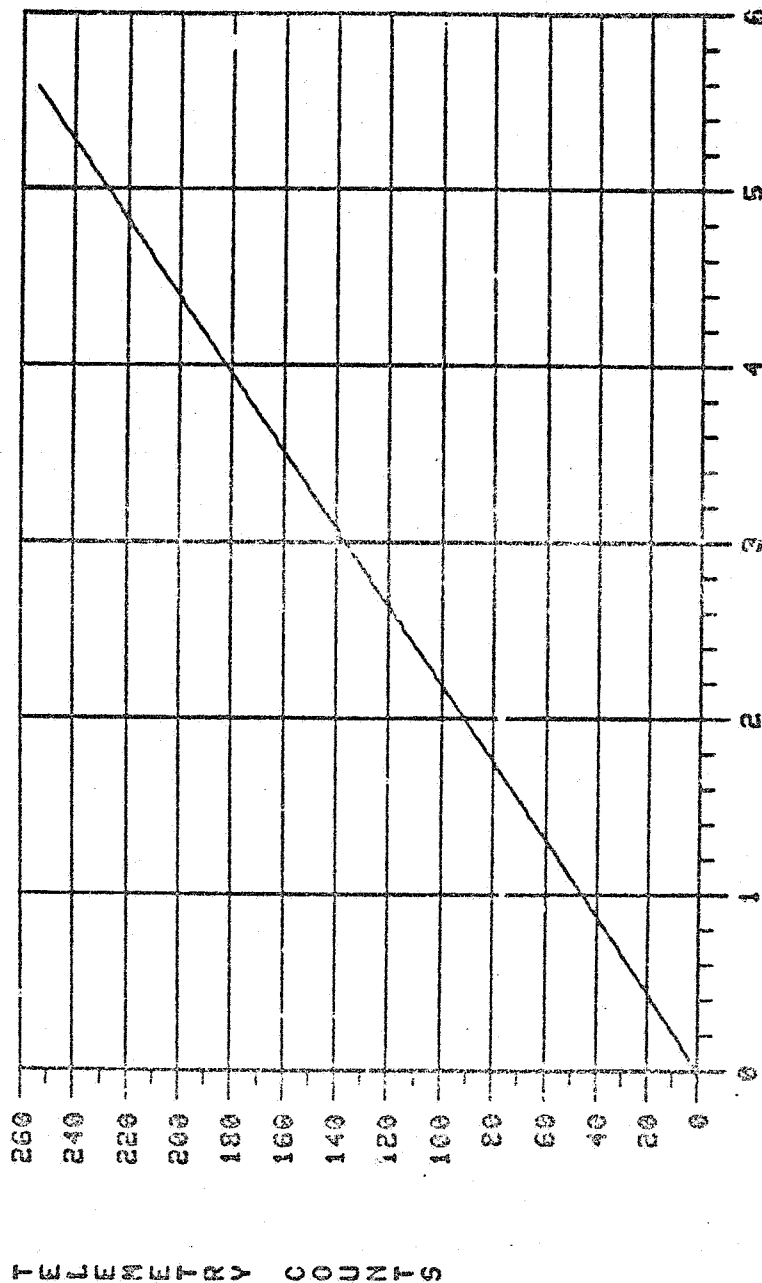


ENGINEERING UNITS - DEGREES

TELEMETRY COUNTS

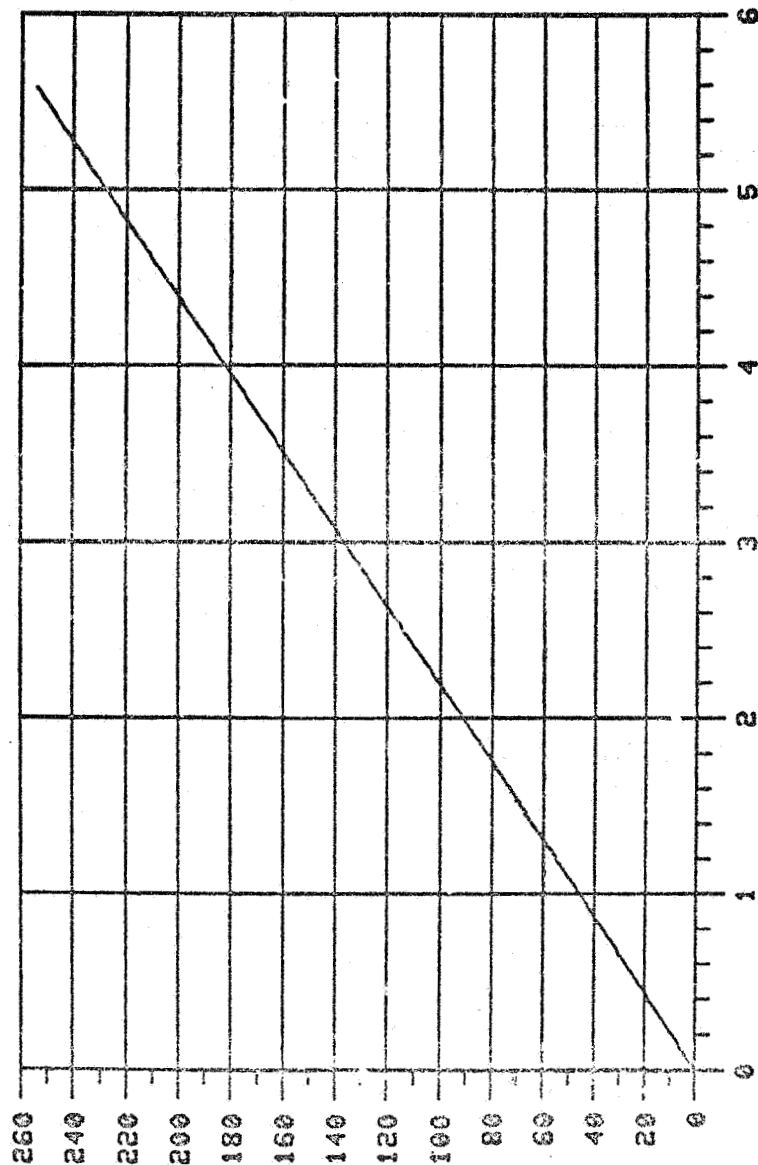
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COUNTS VS ENGINEERING UNITS FOR VANTELL



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COUNTS VS ENGINEERING UNITS FOR VANTELLS

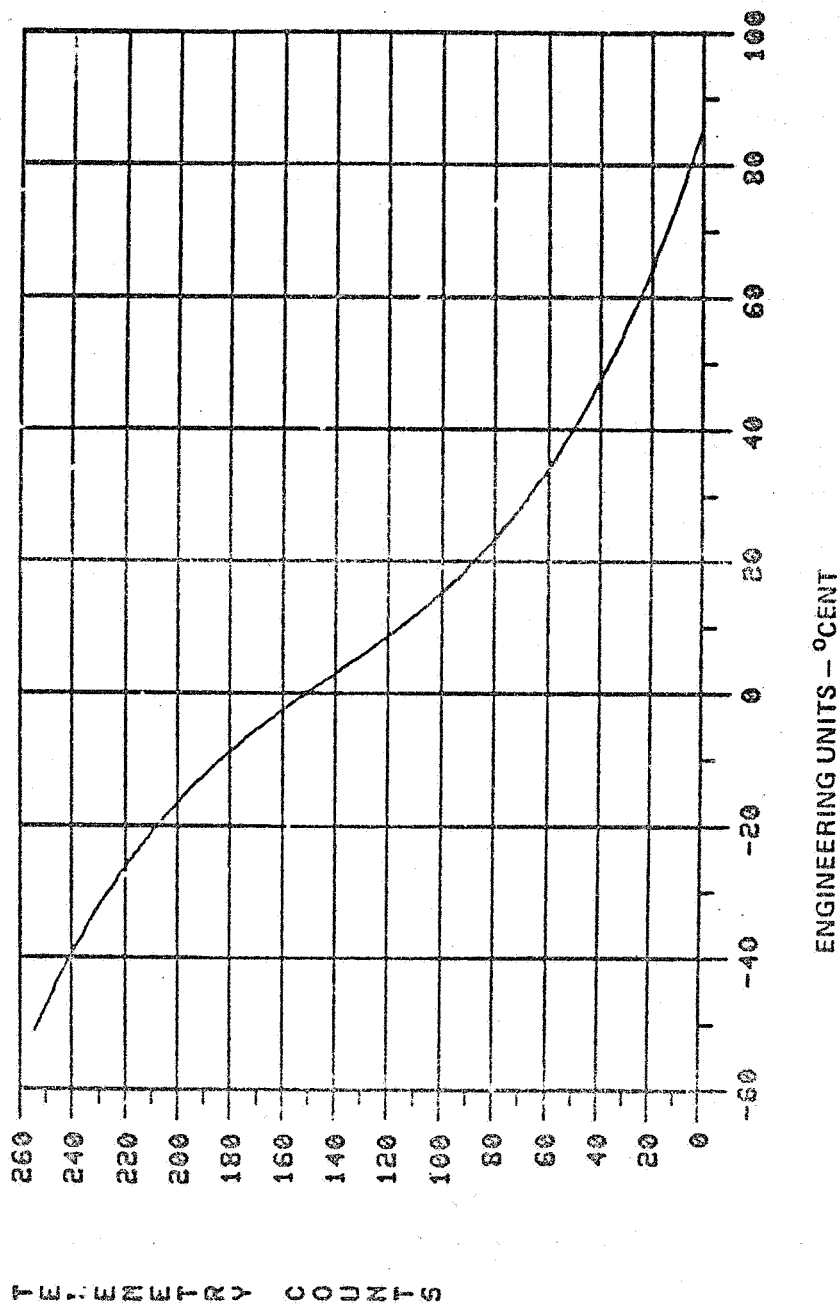


ENGINEERING UNITS - DEGREES

TELEMETRY COUNTS

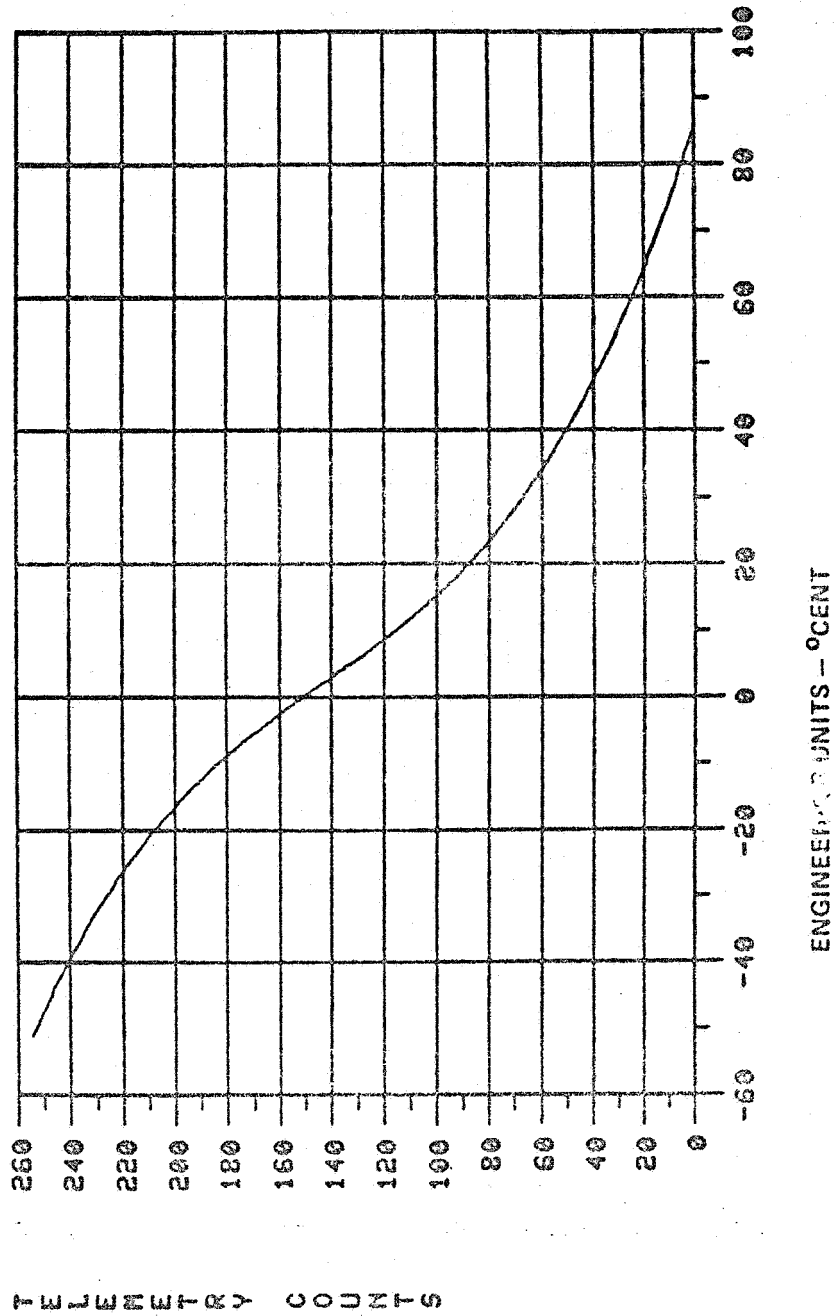
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COUNTS VS ENGINEERING UNITS FOR UATCHBT



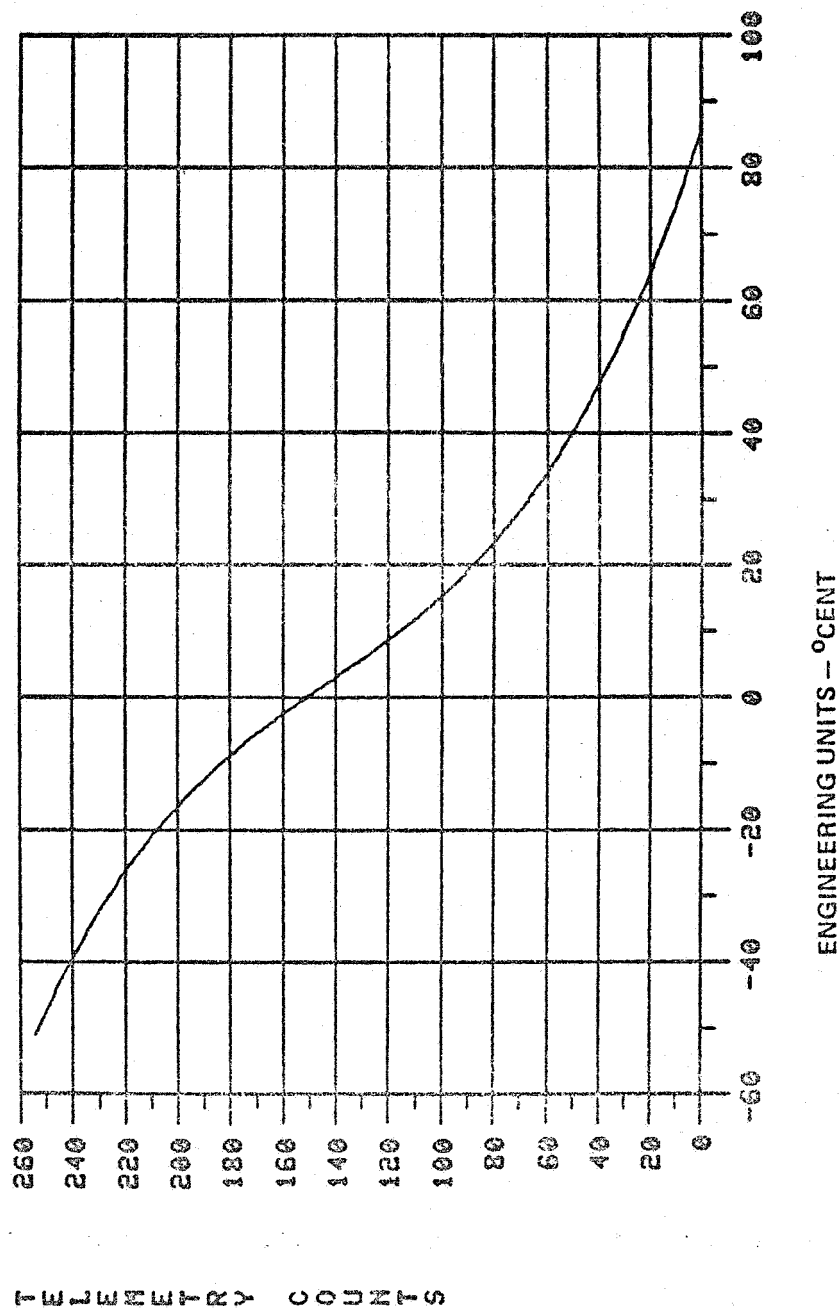
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COUNTS VS ENGINEERING UNITS FOR WATDNCT



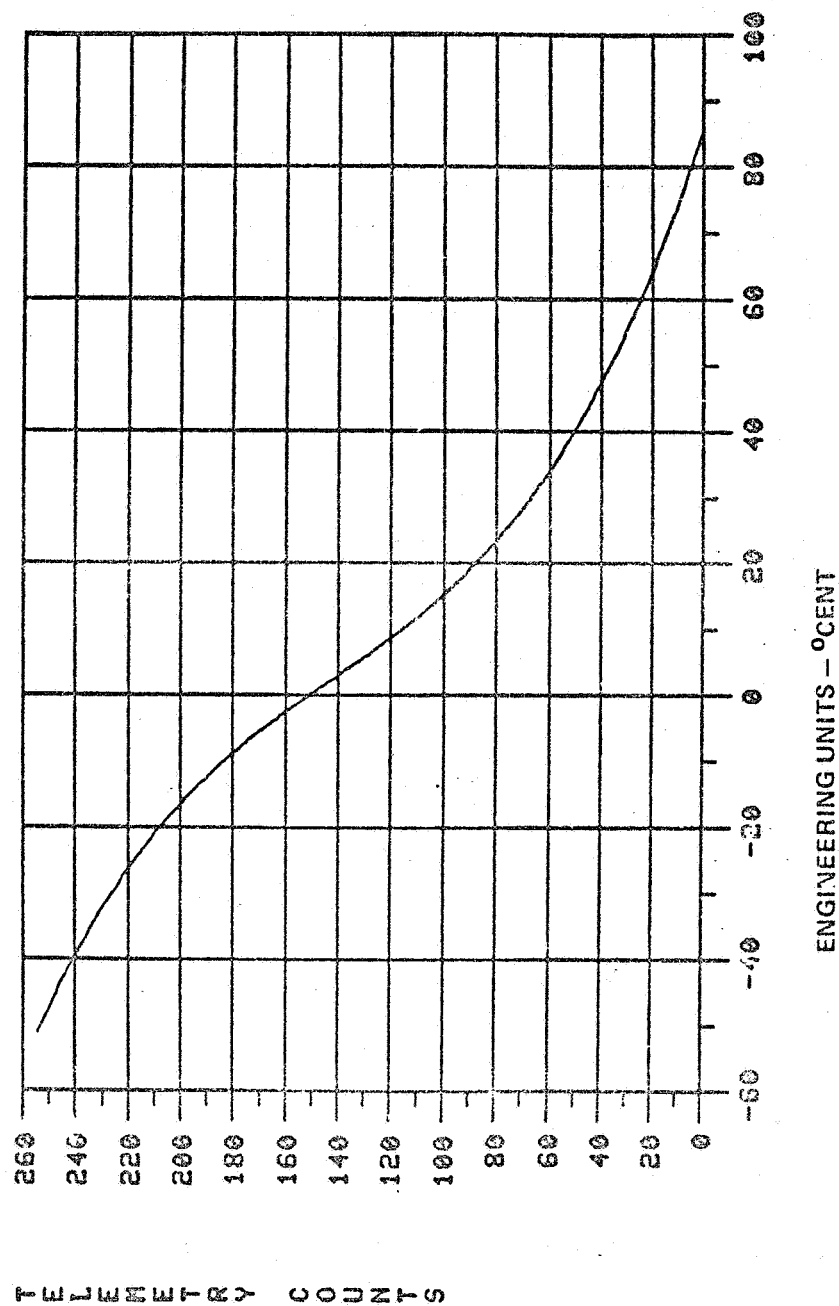
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COUNTS VS ENGINEERING UNITS FOR UATFST



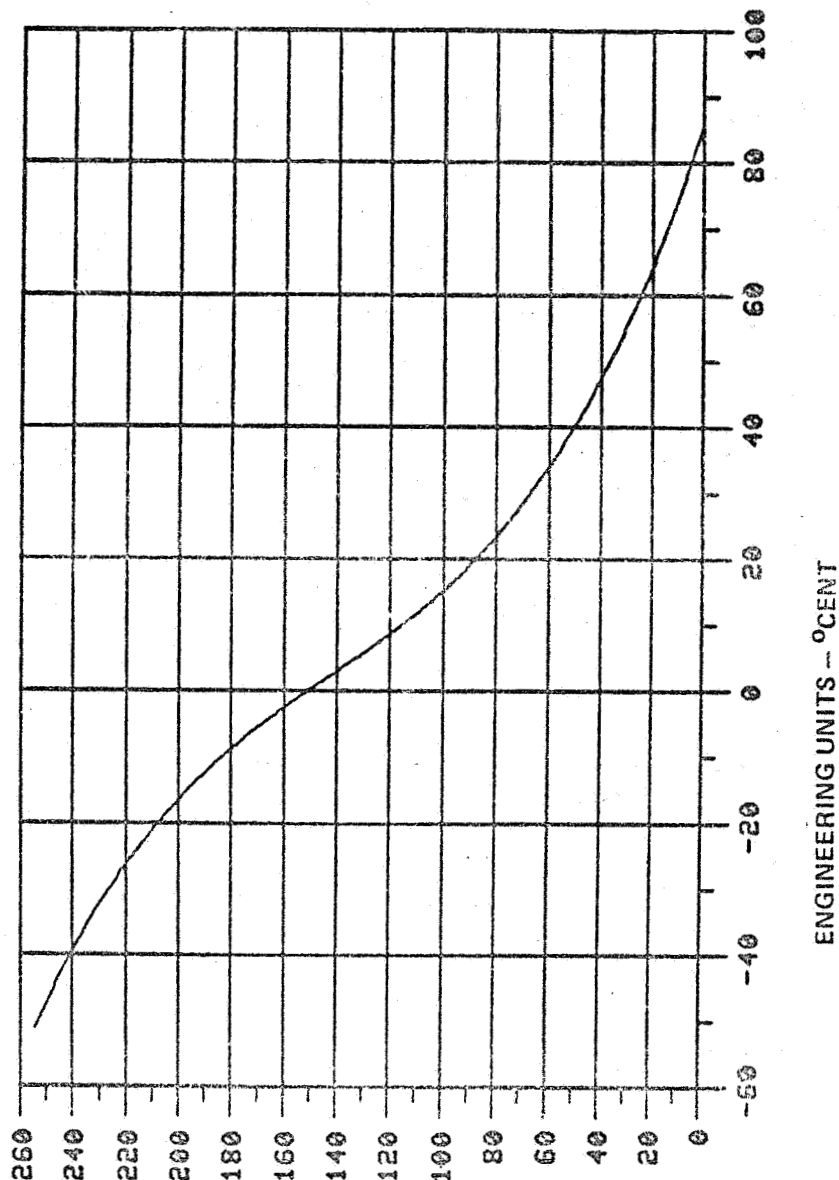
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COUNTS VS ENGINEERING UNITS FOR UATRCURT



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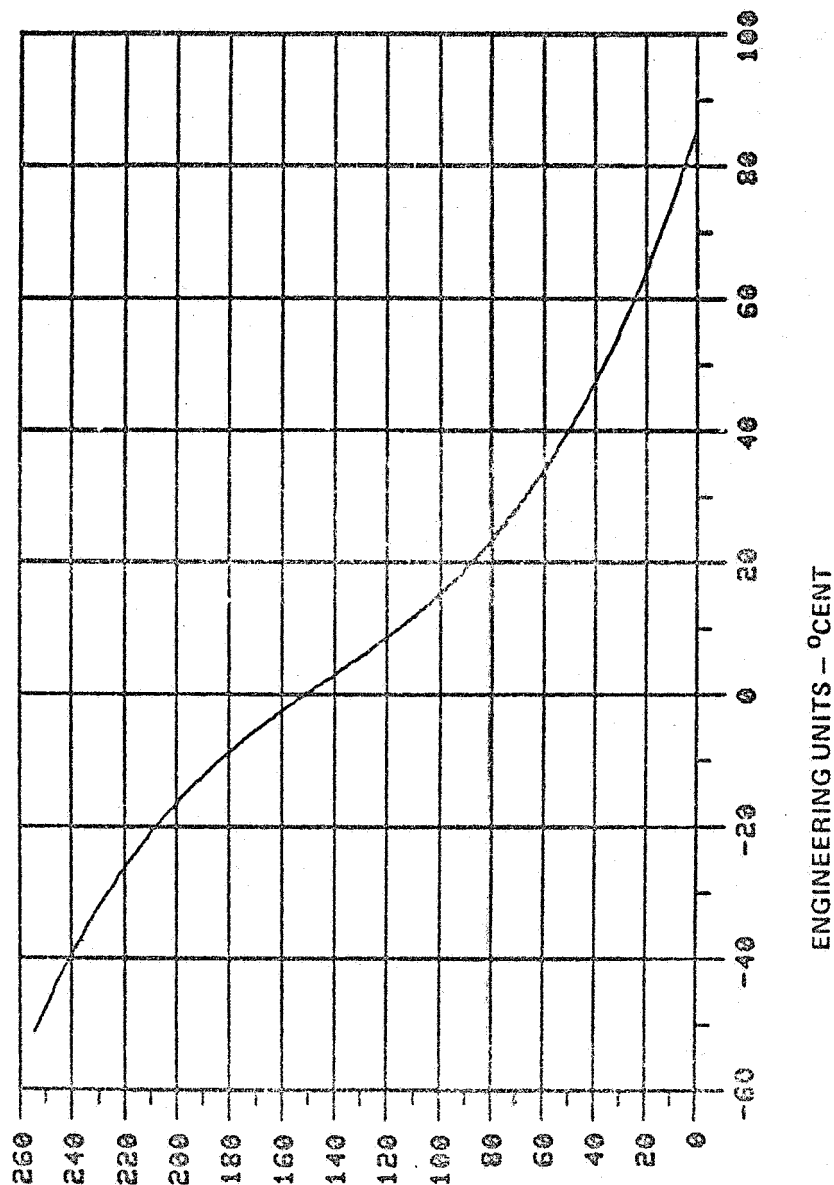
COUNTS VS ENGINEERING UNITS FOR UDSUMXT



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR UGDAMTT

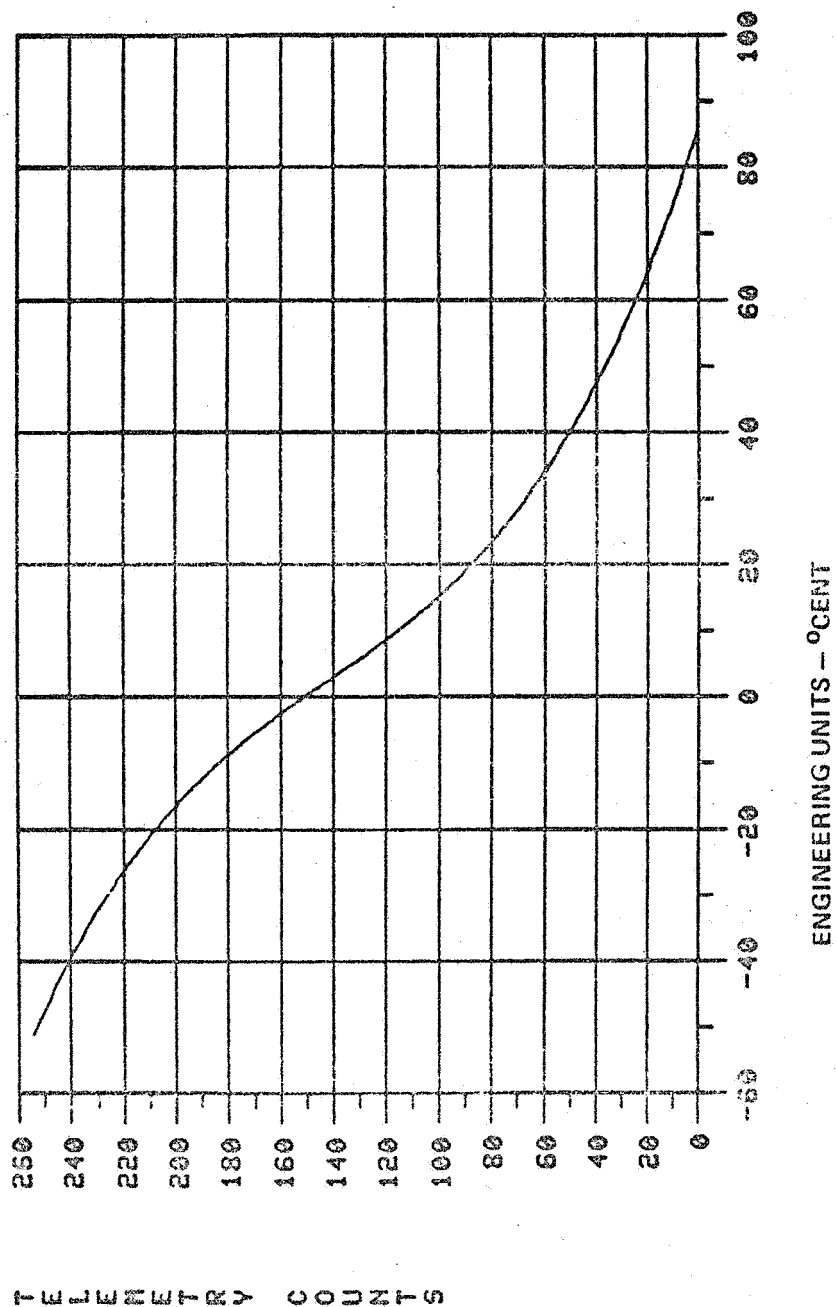


TELEMETRY COUNTS

ENGINEERING UNITS - °CENT

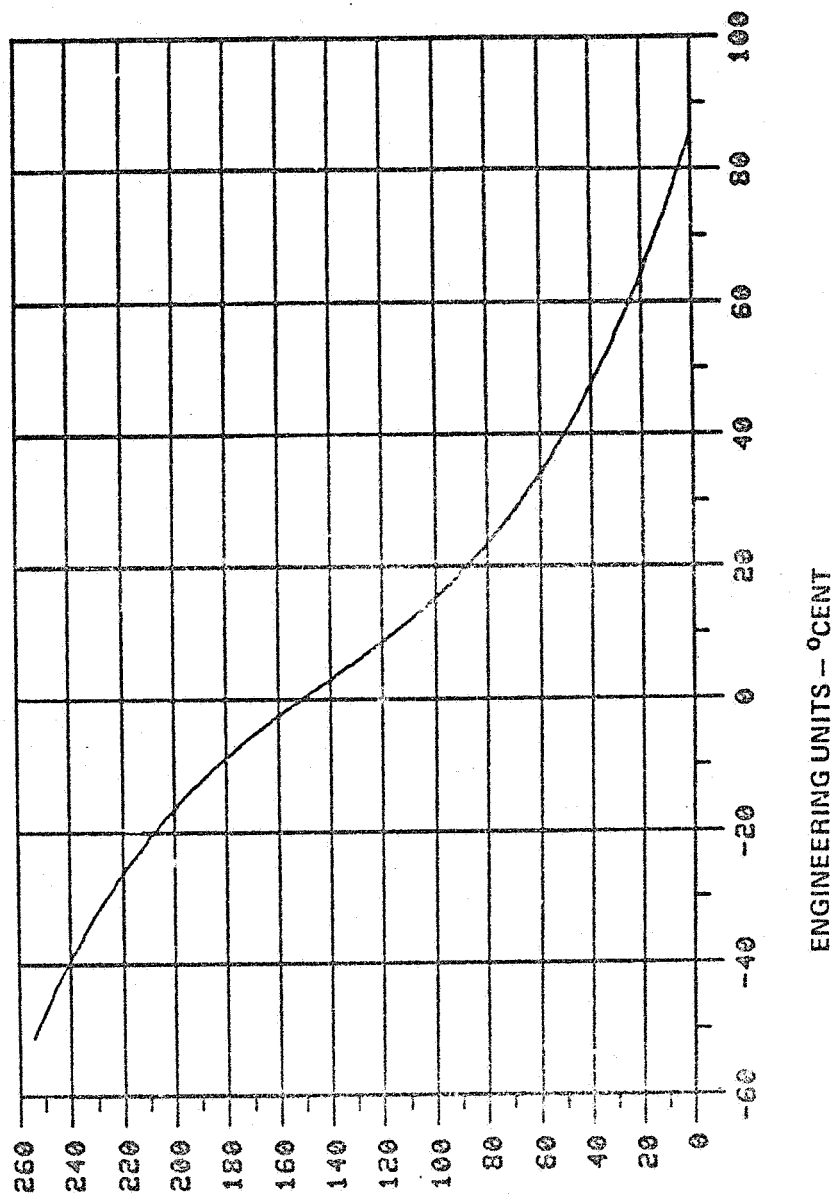
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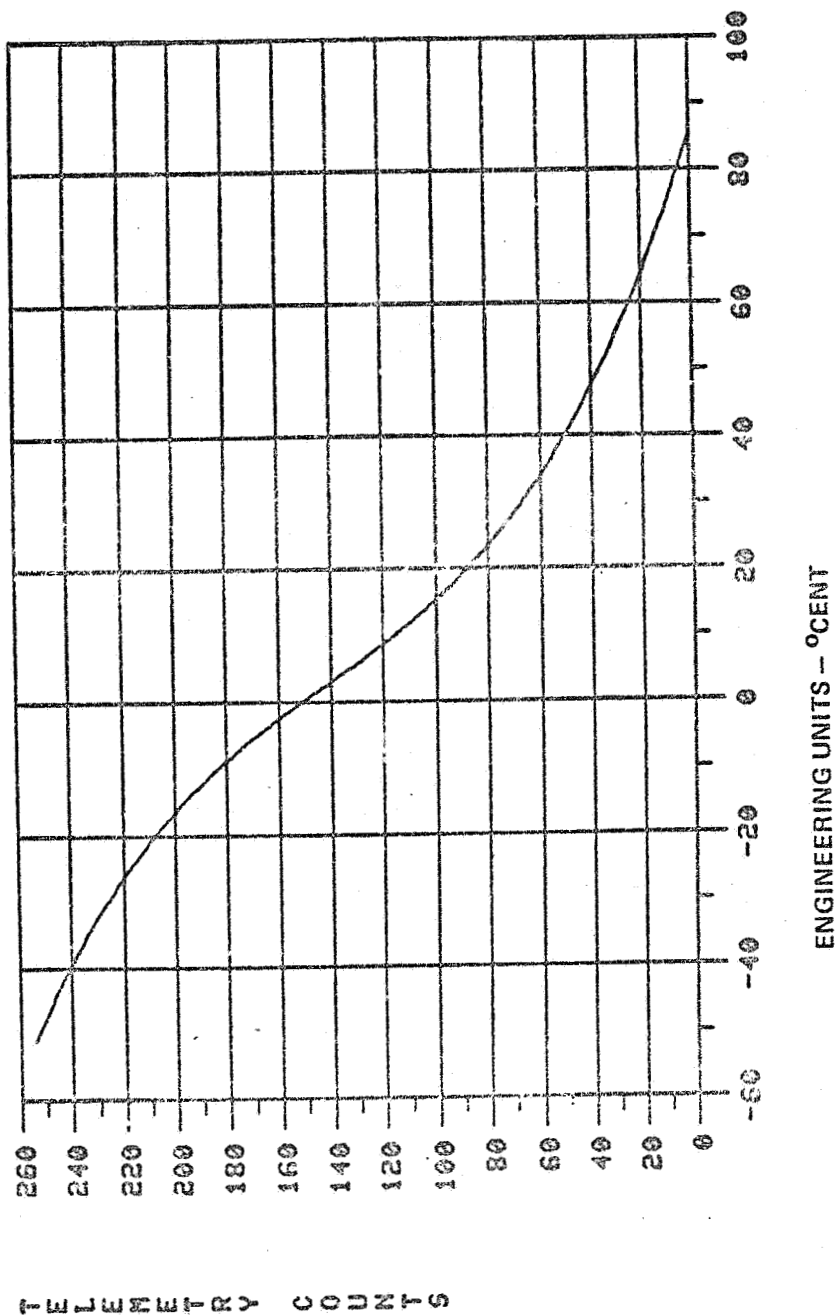
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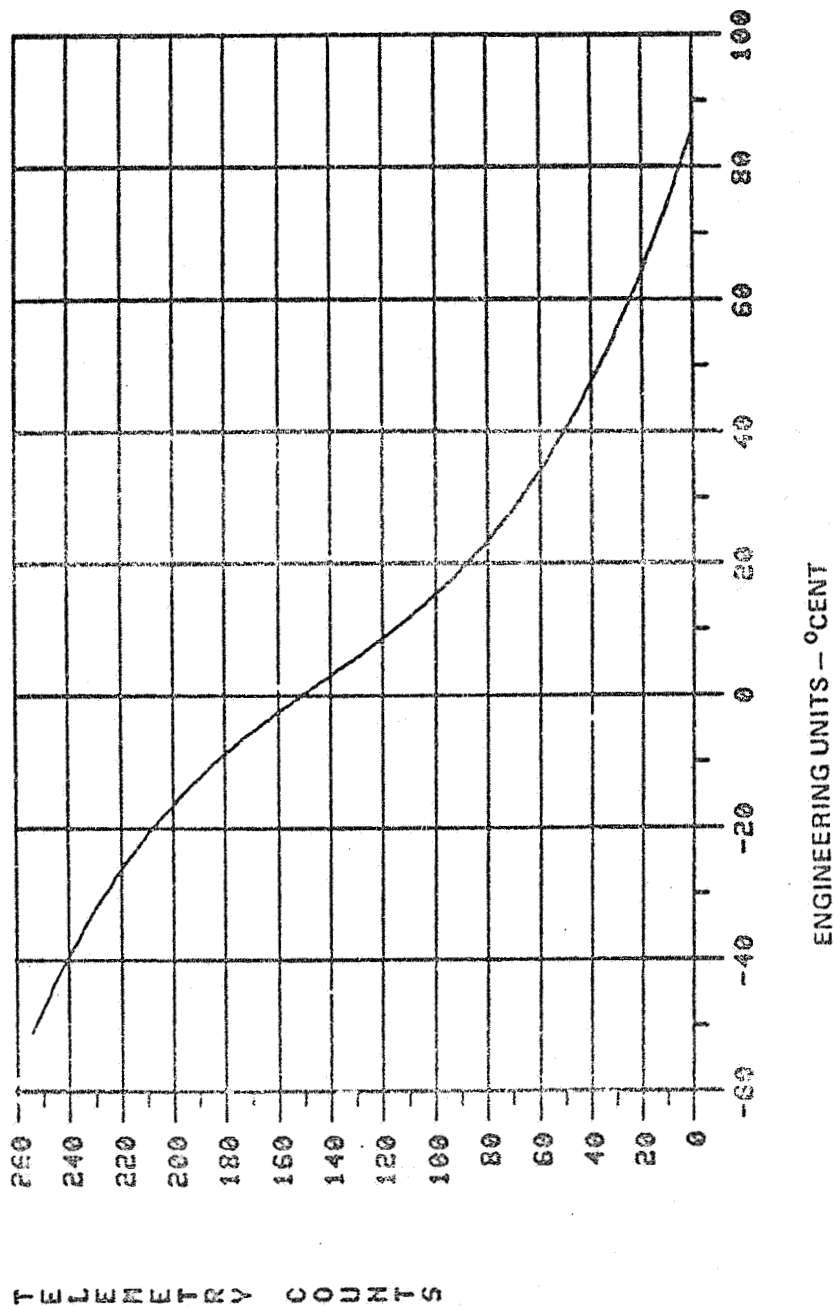
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COUNTS VS ENGINEERING UNITS FOR UKTUTAT



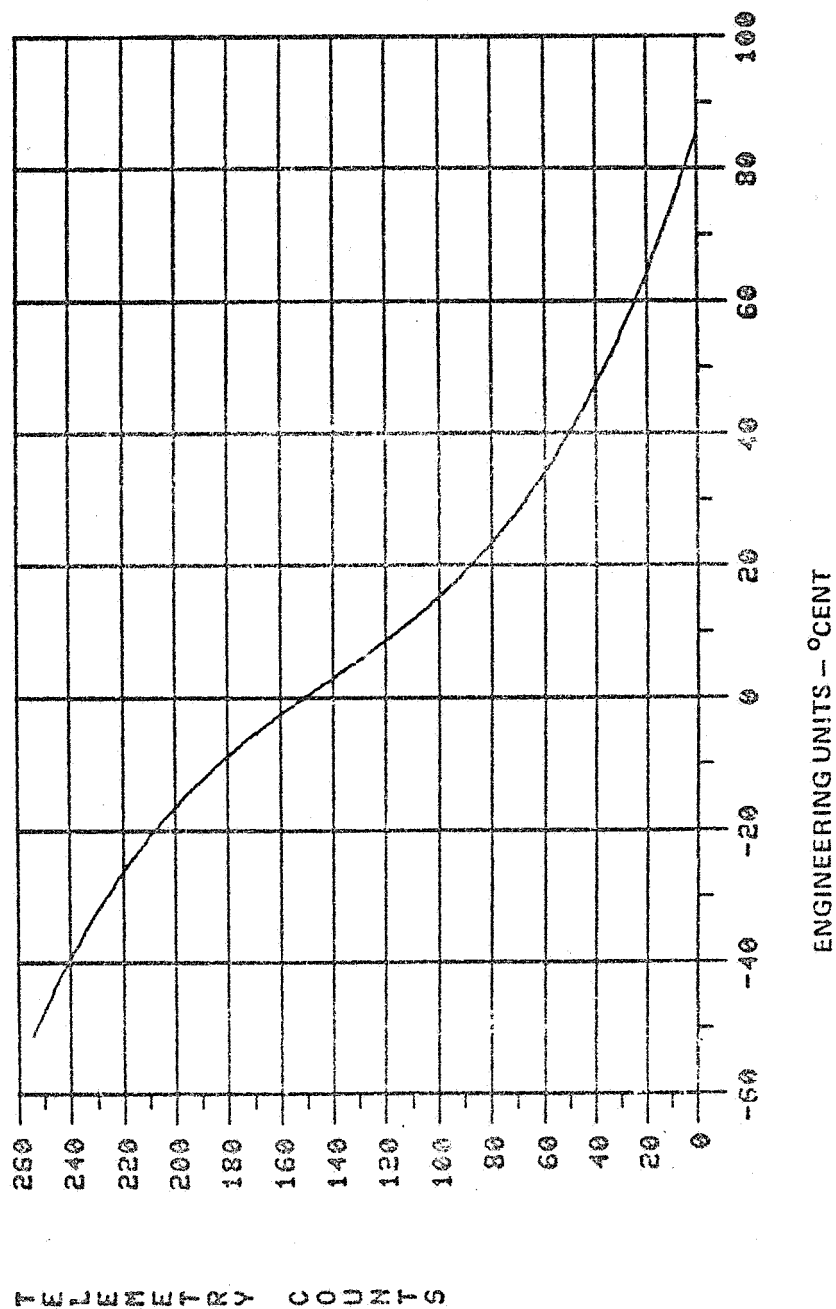
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COUNTS VS ENGINEERING UNITS FOR UKUDIPT



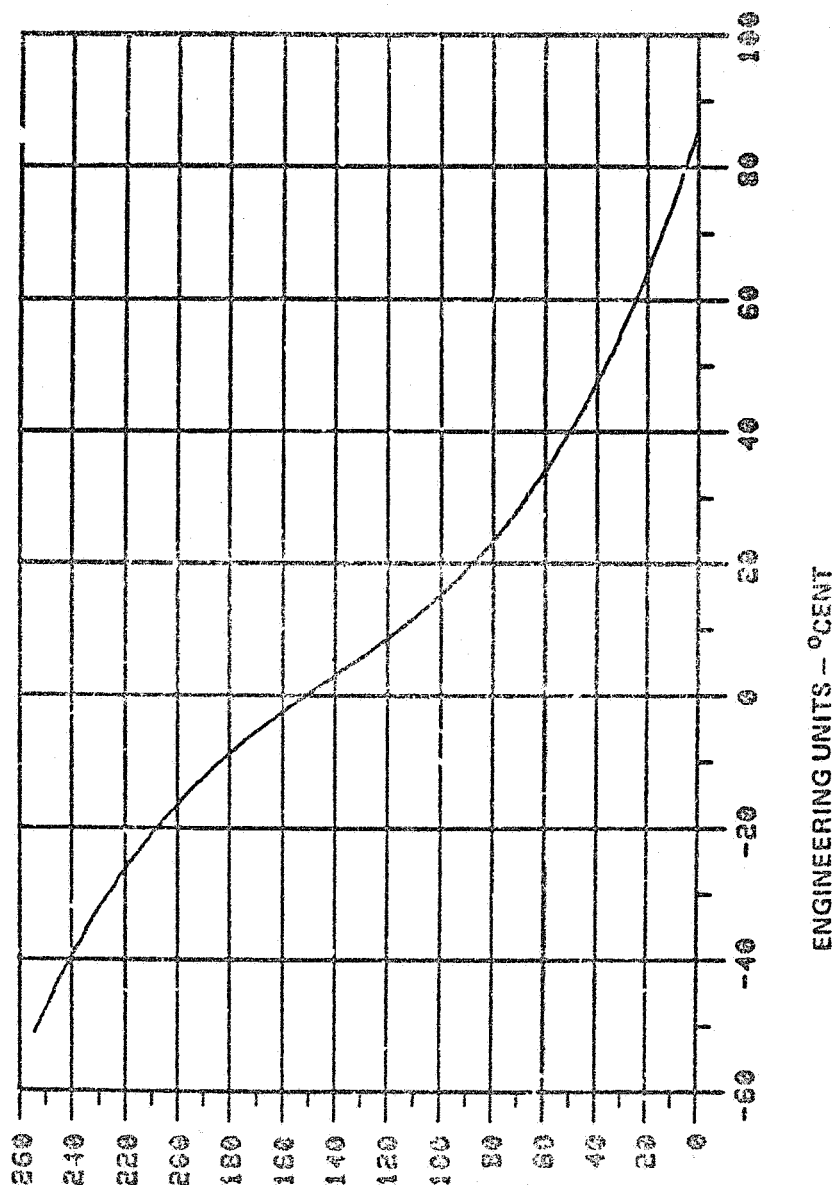
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COUNTS VS ENGINEERING UNITS FOR UKLUPCONT



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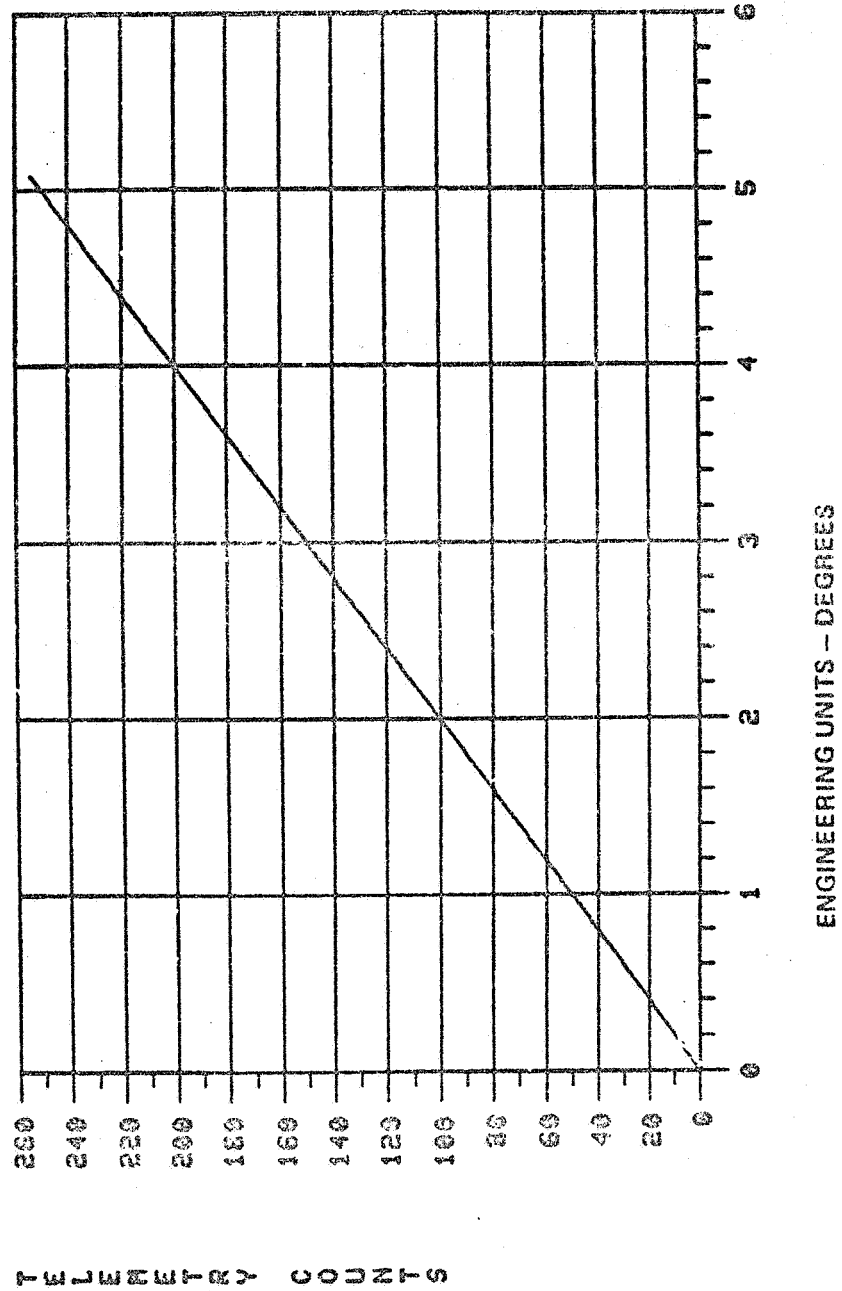
COUNTS VS ENGINEERING UNITS FOR UNRFEEYT



TELEMETRY COUNTS

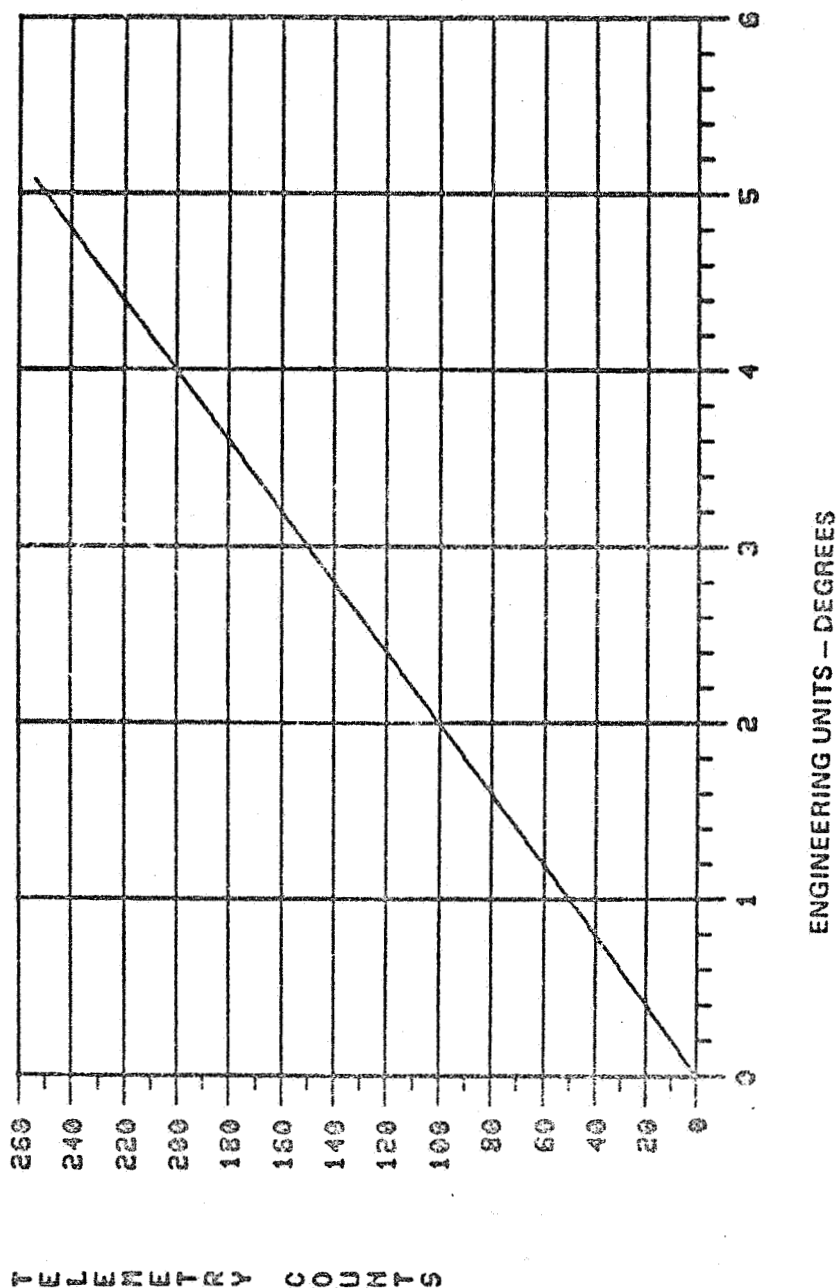
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COUNTS VS ENGINEERING UNITS FOR UPATAZER



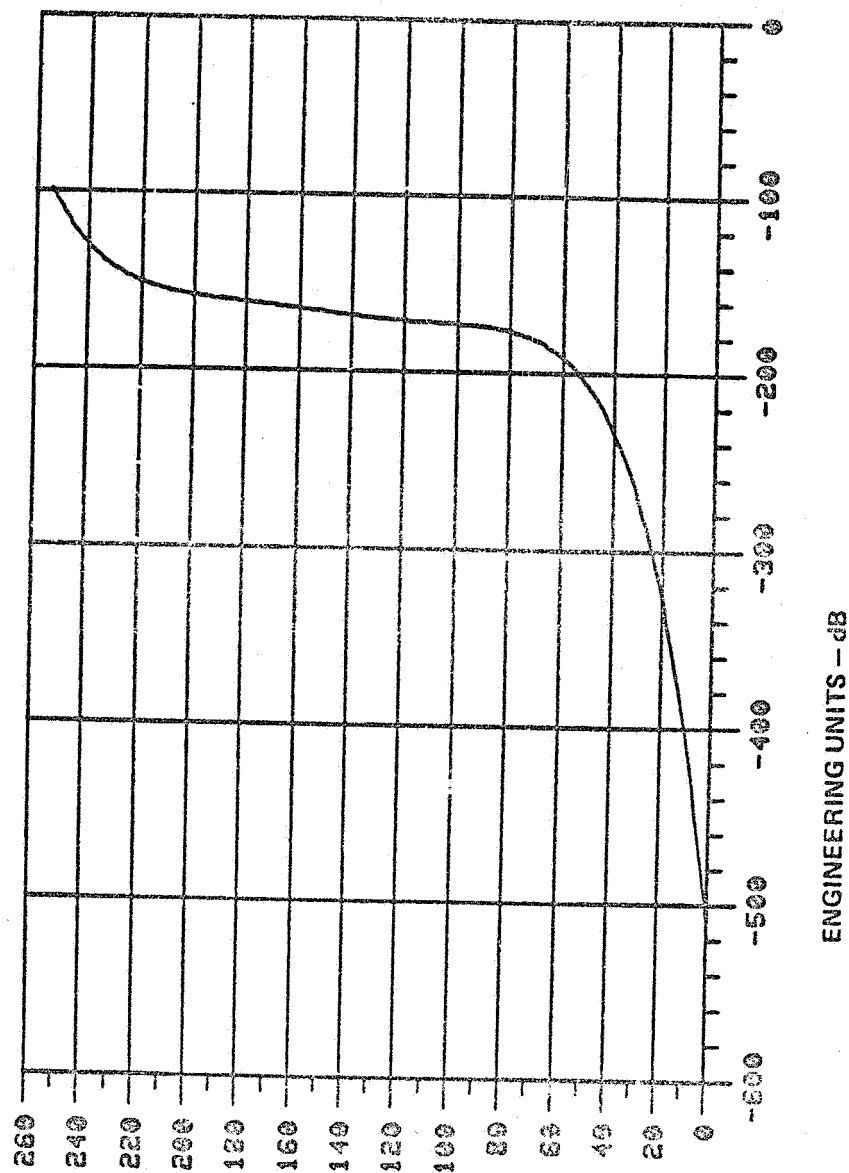
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COUNTS VS ENGINEERING UNITS FOR UPATELER



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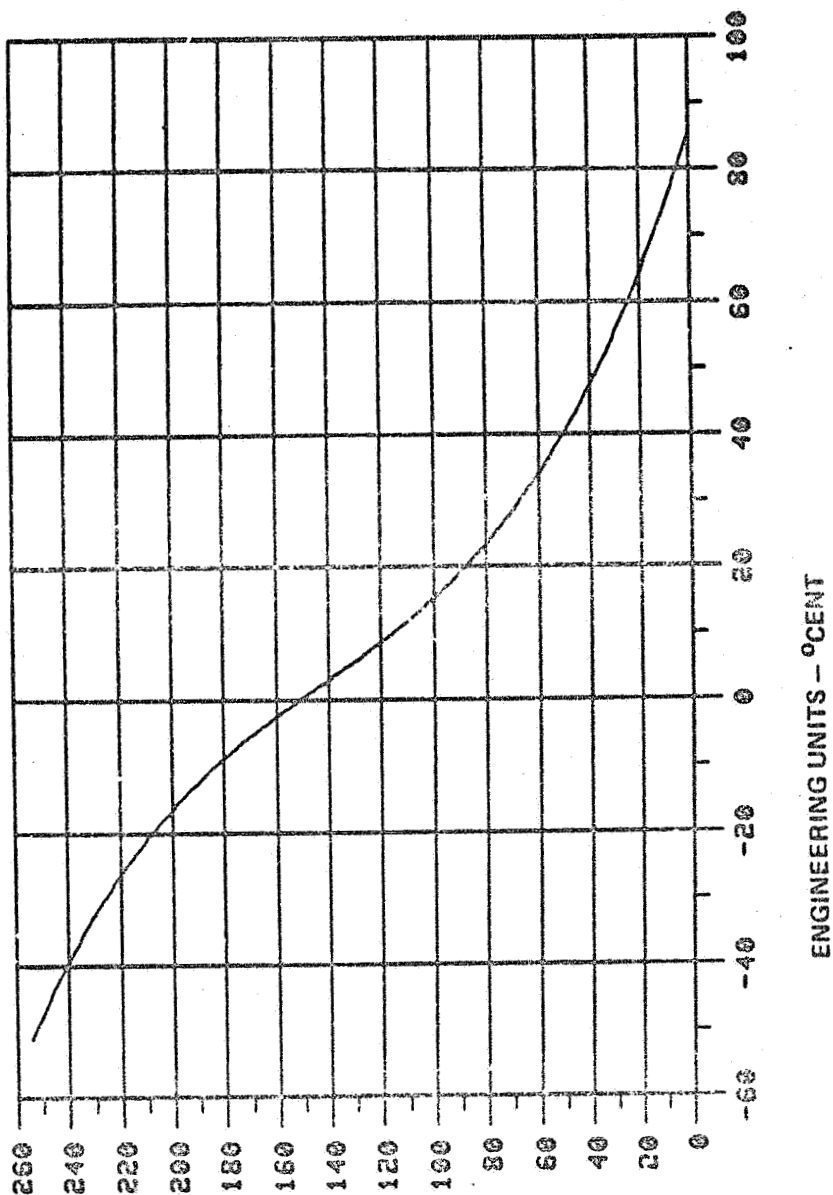
COUNTS VS ENGINEERING UNITS FOR UPATRSS



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR WPAZKCTT

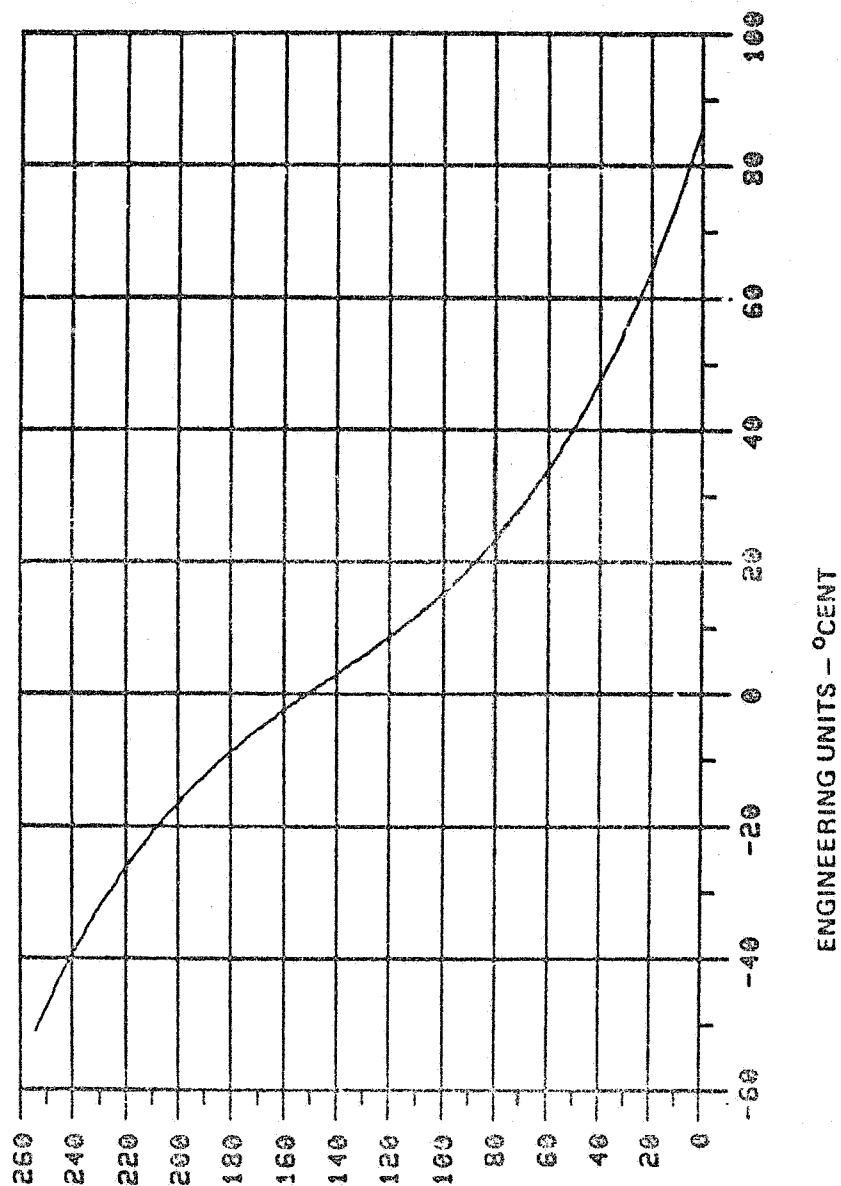


TELEMETRY COUNTS

ENGINEERING UNITS - °C

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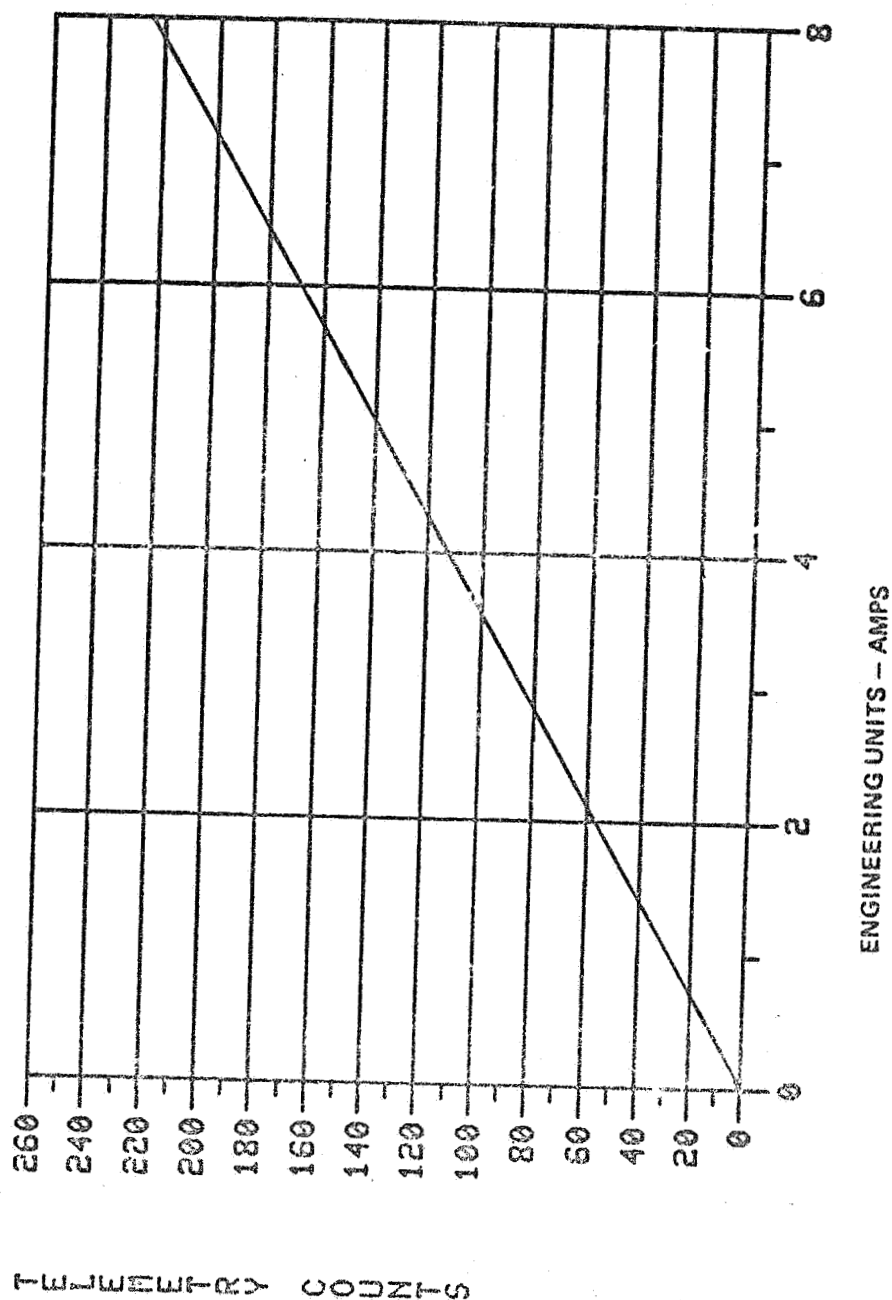
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TELEMETRY COUNTS

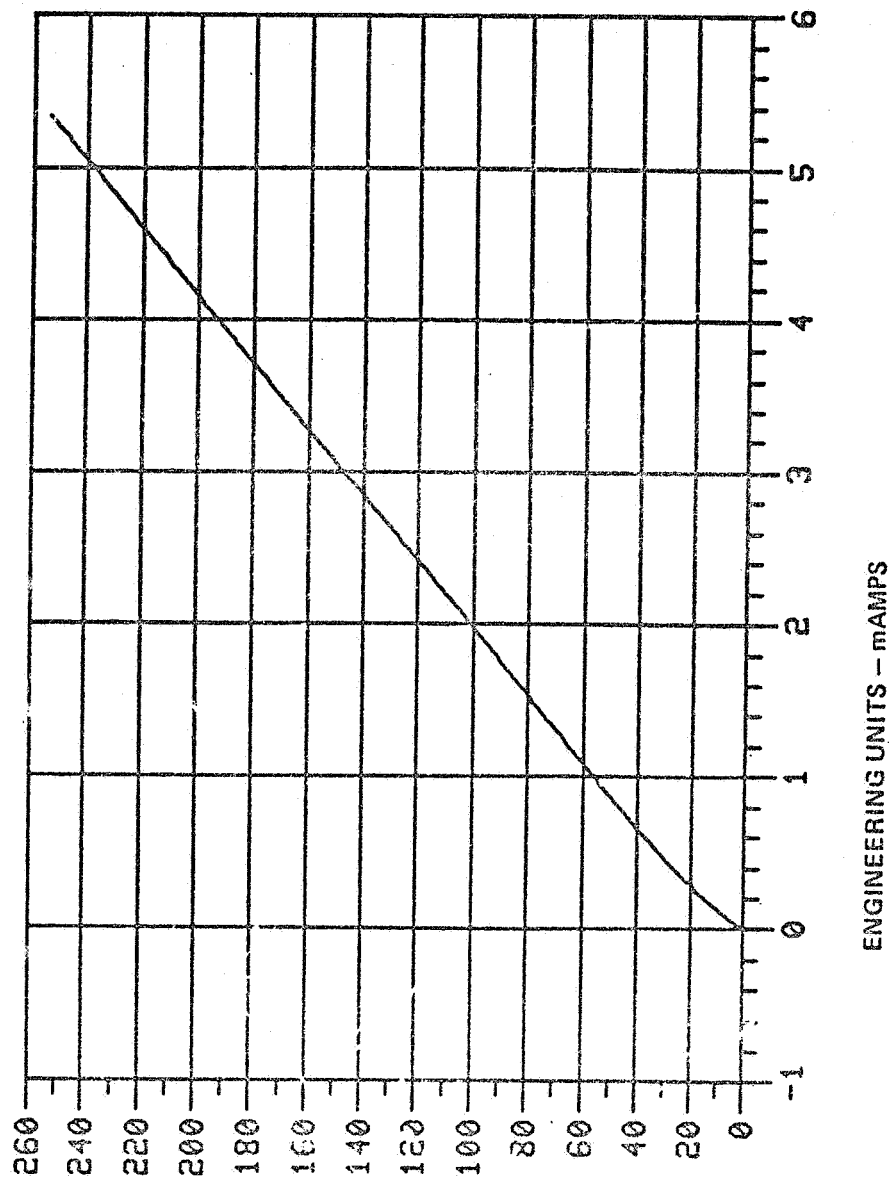
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COUNTS VS ENGINEERING UNITS FOR UPKBUSI



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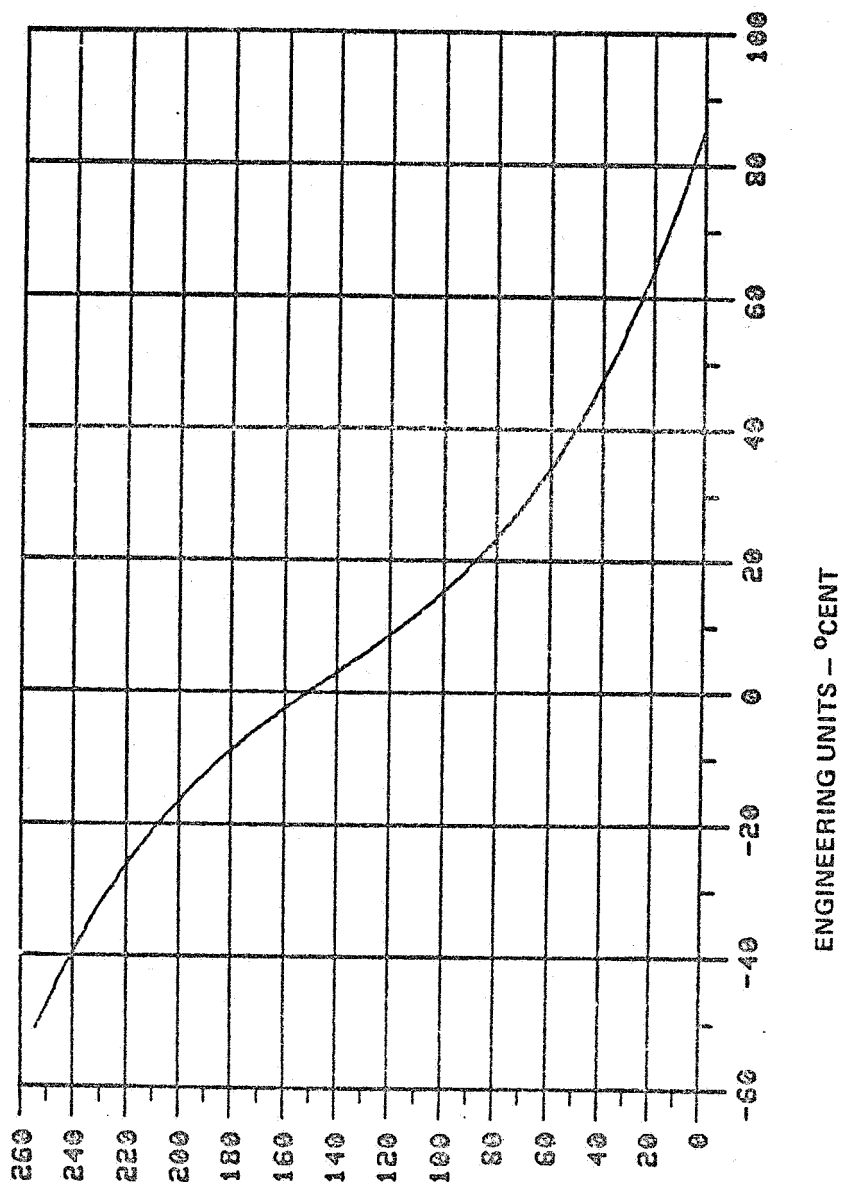
COUNTS VS ENGINEERING UNITS FOR UPKHELI



TELEMETRY COUNTS

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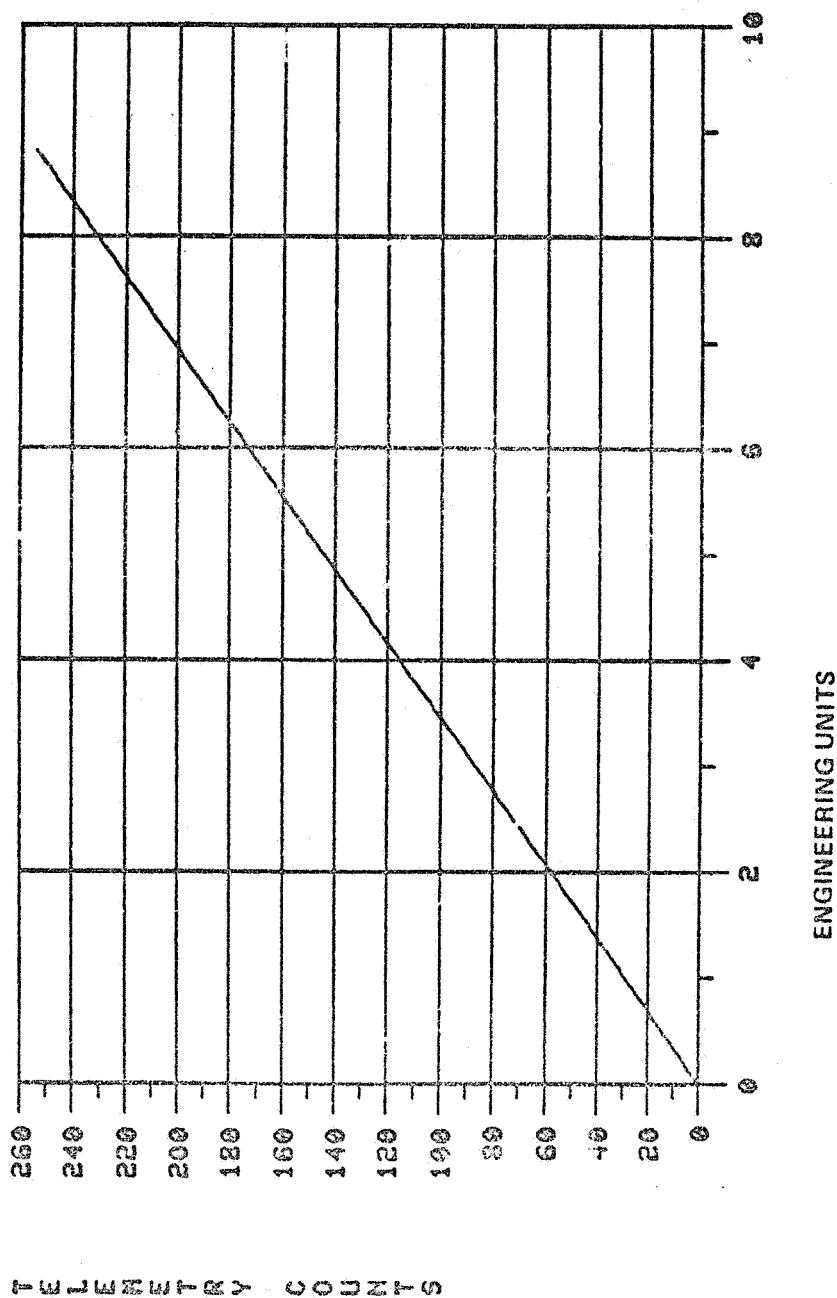
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TELEMETRY COUNTS

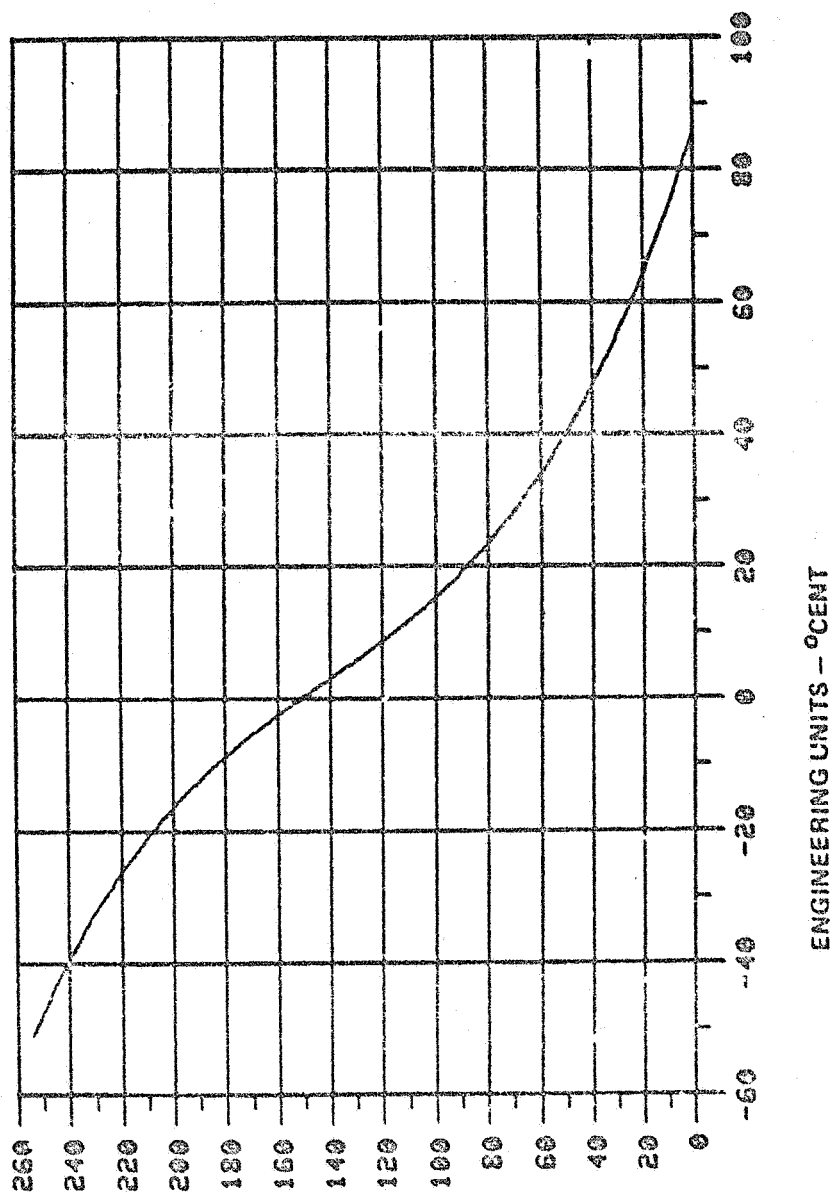
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COUNTS VS ENGINEERING UNITS FOR UPPUCONU



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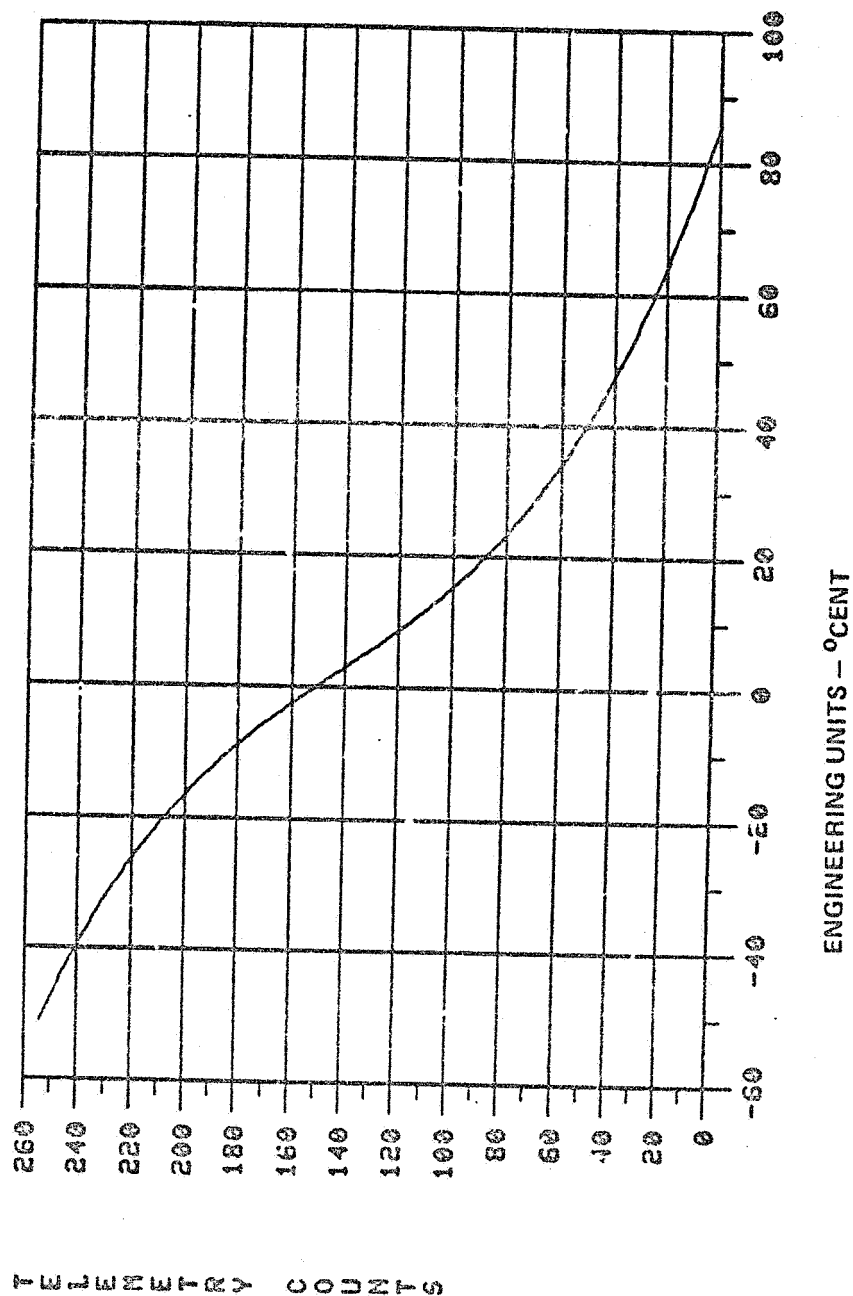
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TELEMETRY COUNTS

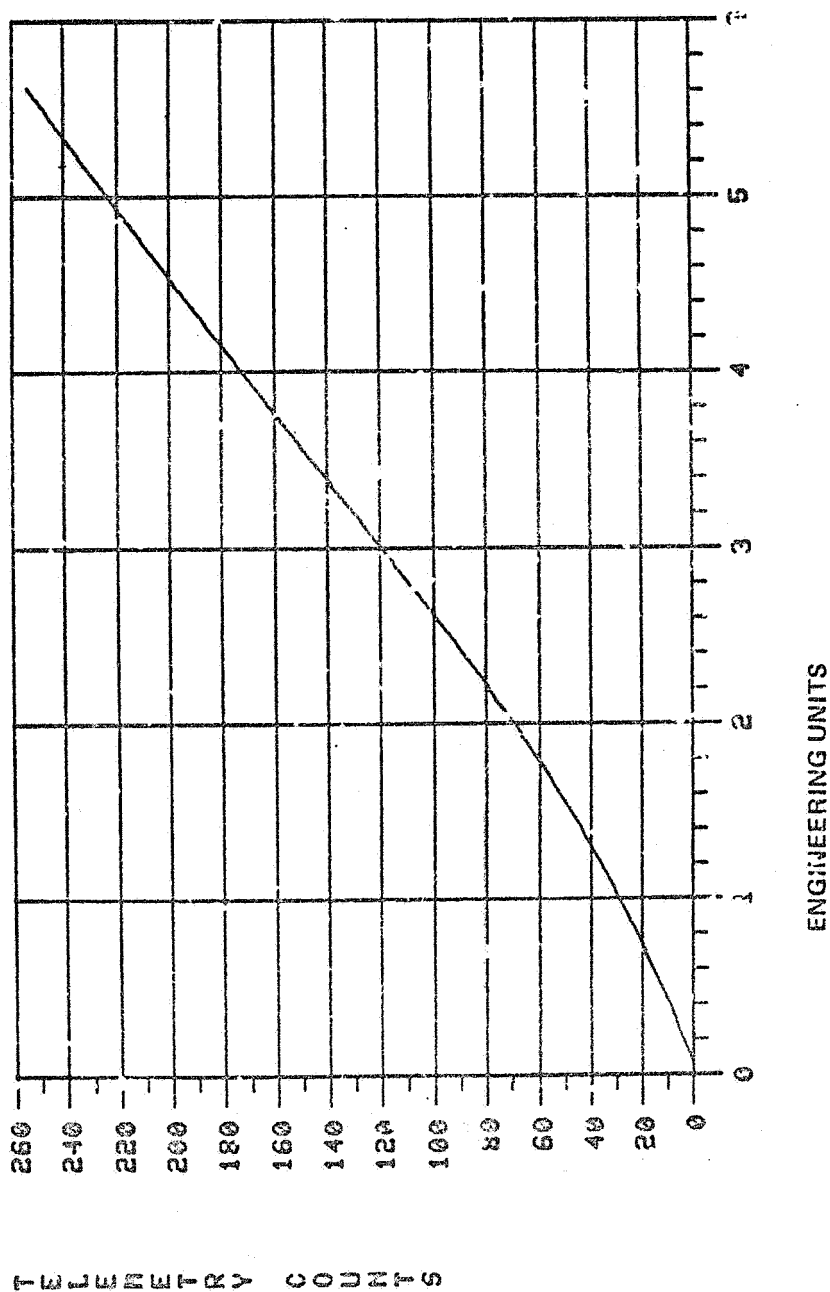
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COUNTS VS ENGINEERING UNITS FOR UPSUPYT



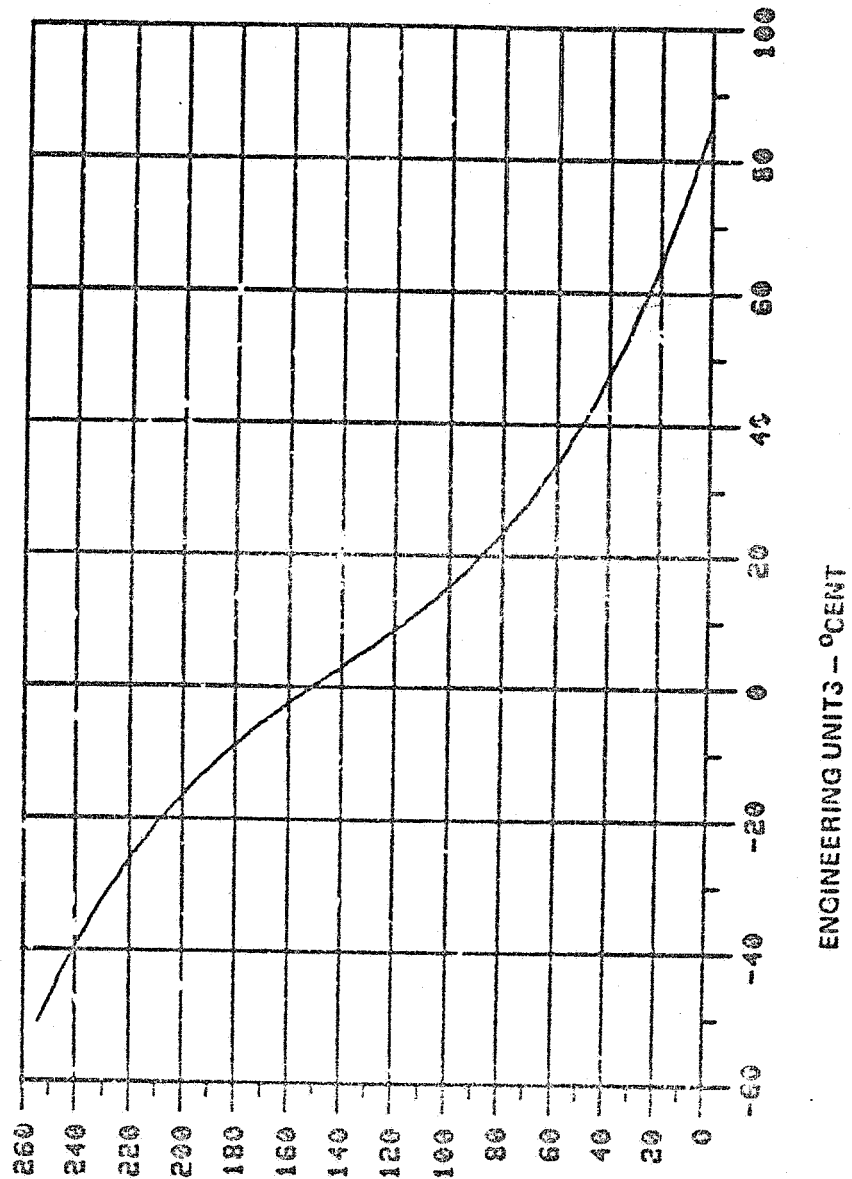
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COUNTS VS ENGINEERING UNITS FOR UPXBUSI



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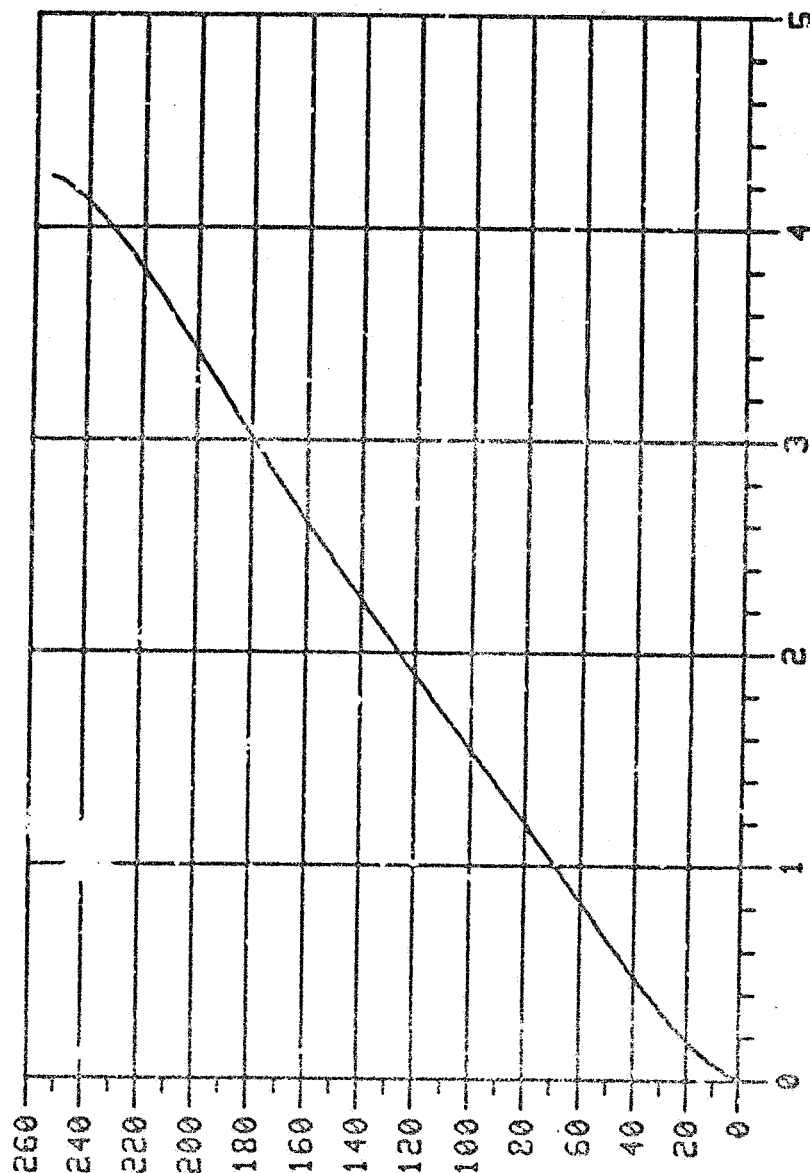
COUNTS VS ENGINEERING UNITS FOR UPXCOUT



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR UPXHELI

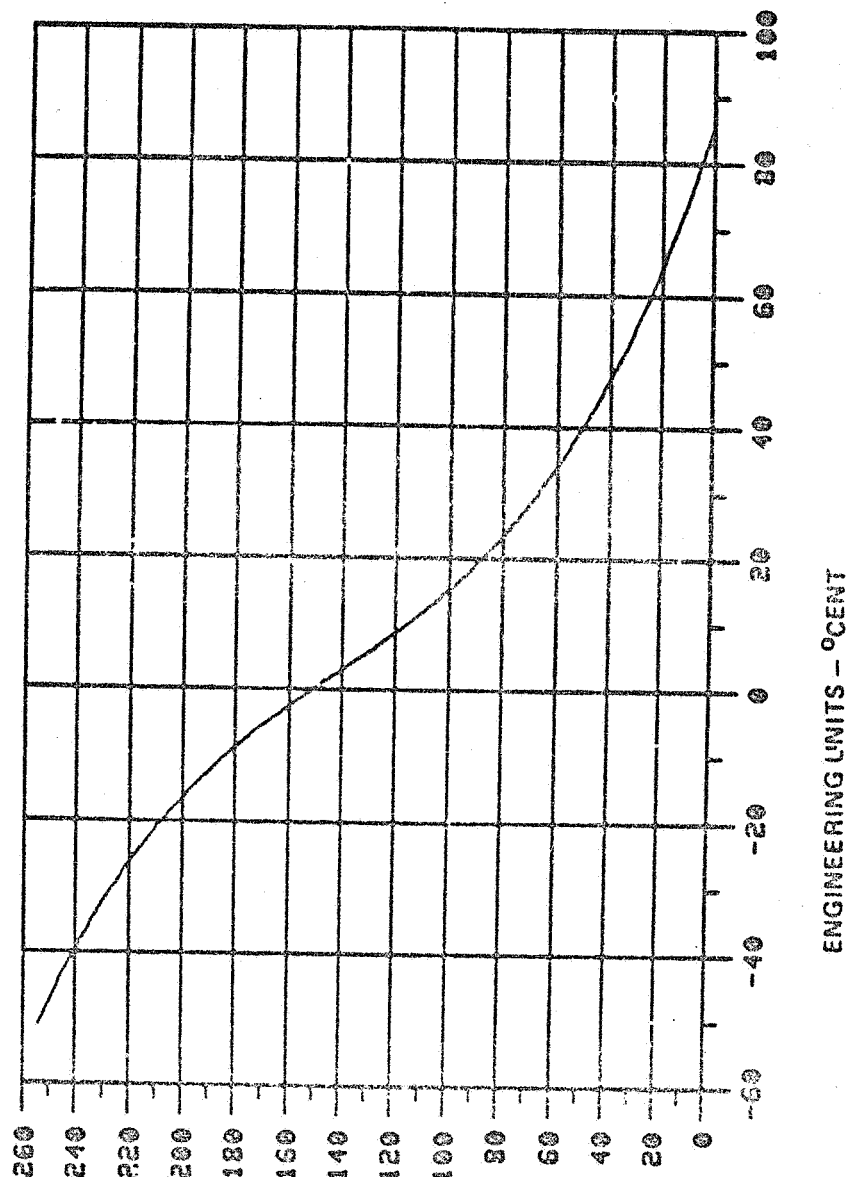


ENGINEERING UNITS - mAMPS

TELEMETRY COUNTS

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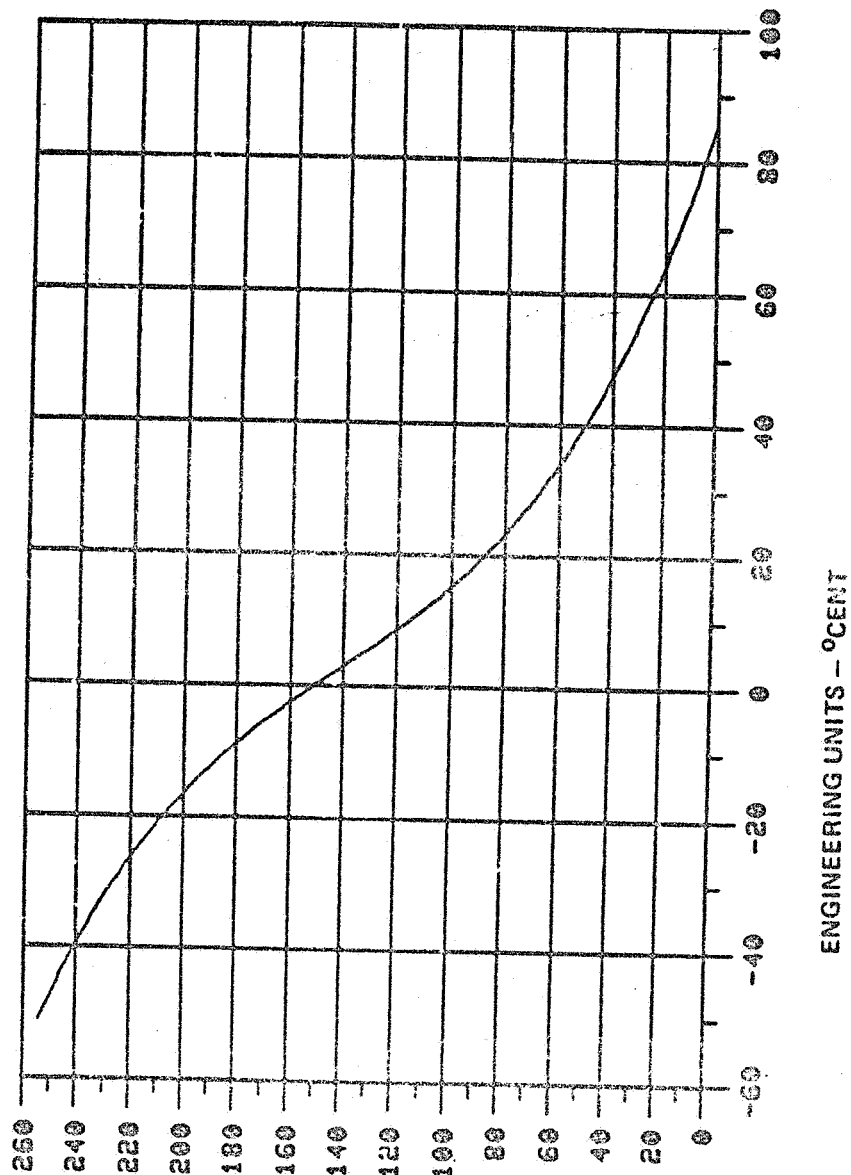
COUNTS VS ENGINEERING UNITS FOR UPXTUTAT



TELEMETRY COUNTS

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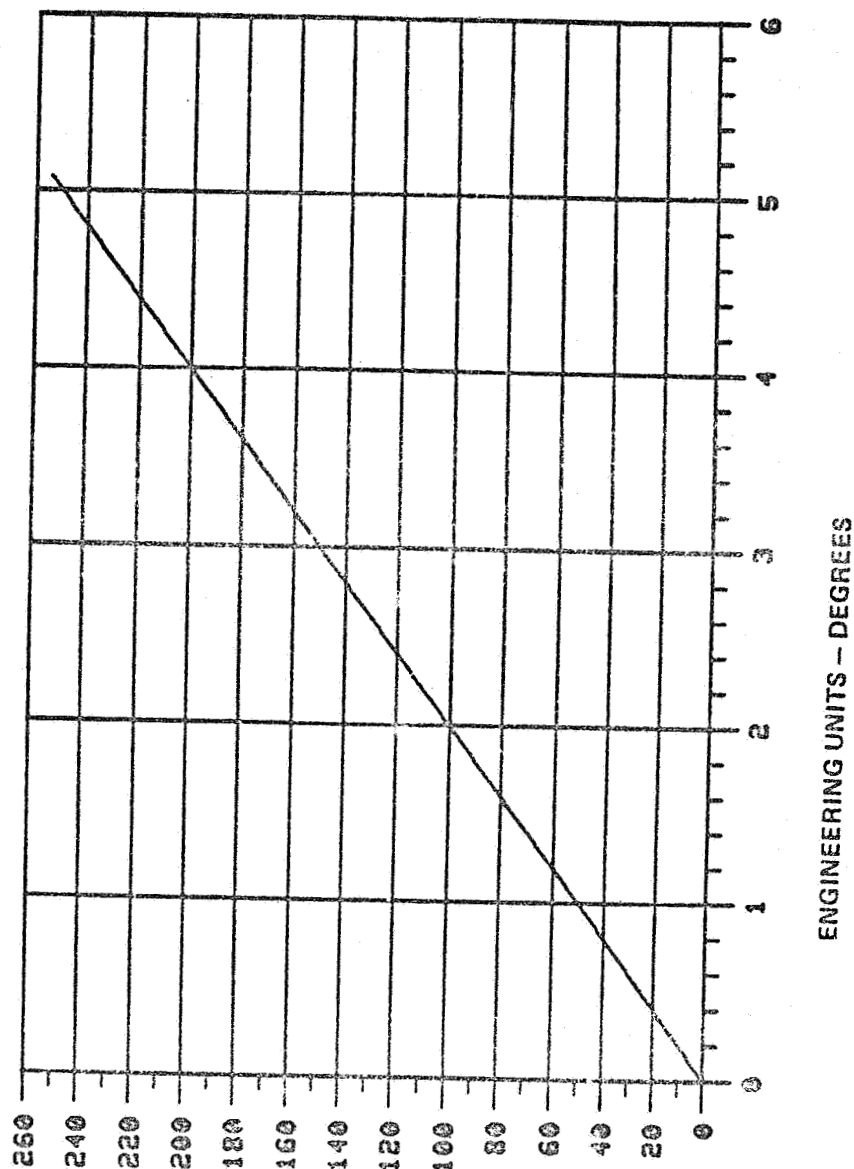
COUNTS VS ENGINEERING UNITS FOR UP2PWL1



TELEMETRY COUNTS

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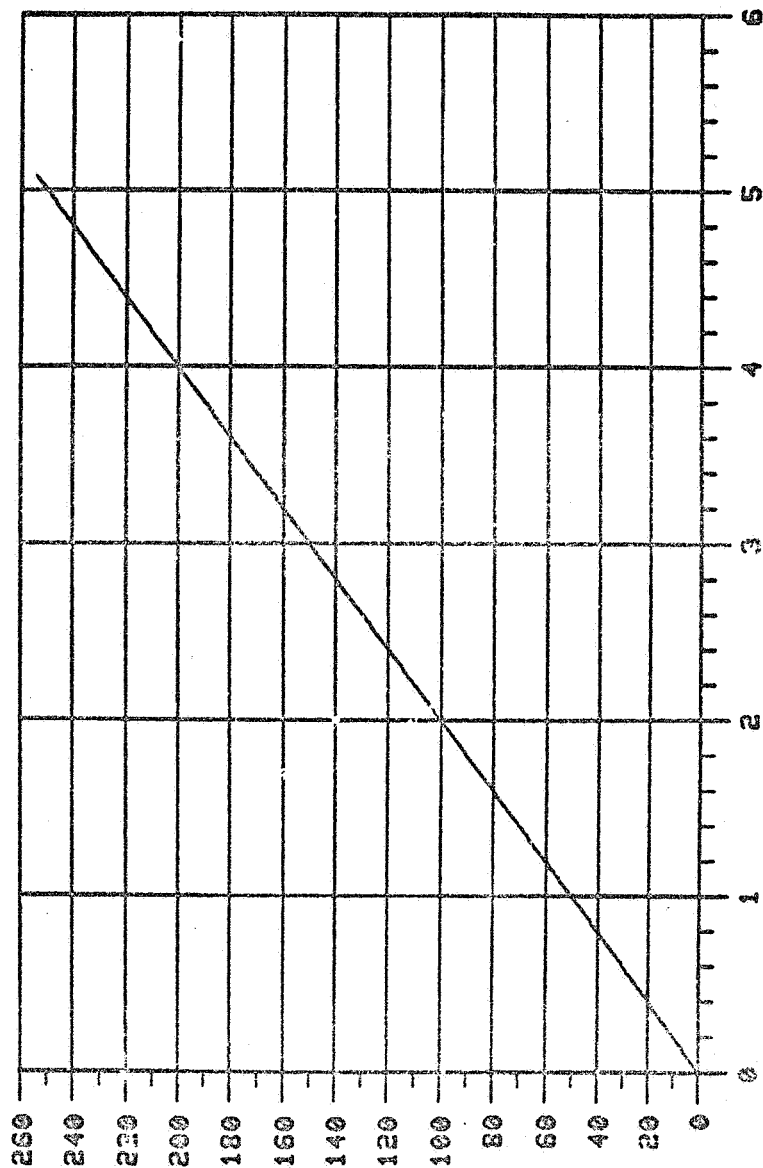
COUNTS VS ENGINEERING UNITS FOR URATAZER



FILTERED COUNTS

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COUNTS VS ENGINEERING UNITS FOR URATELER

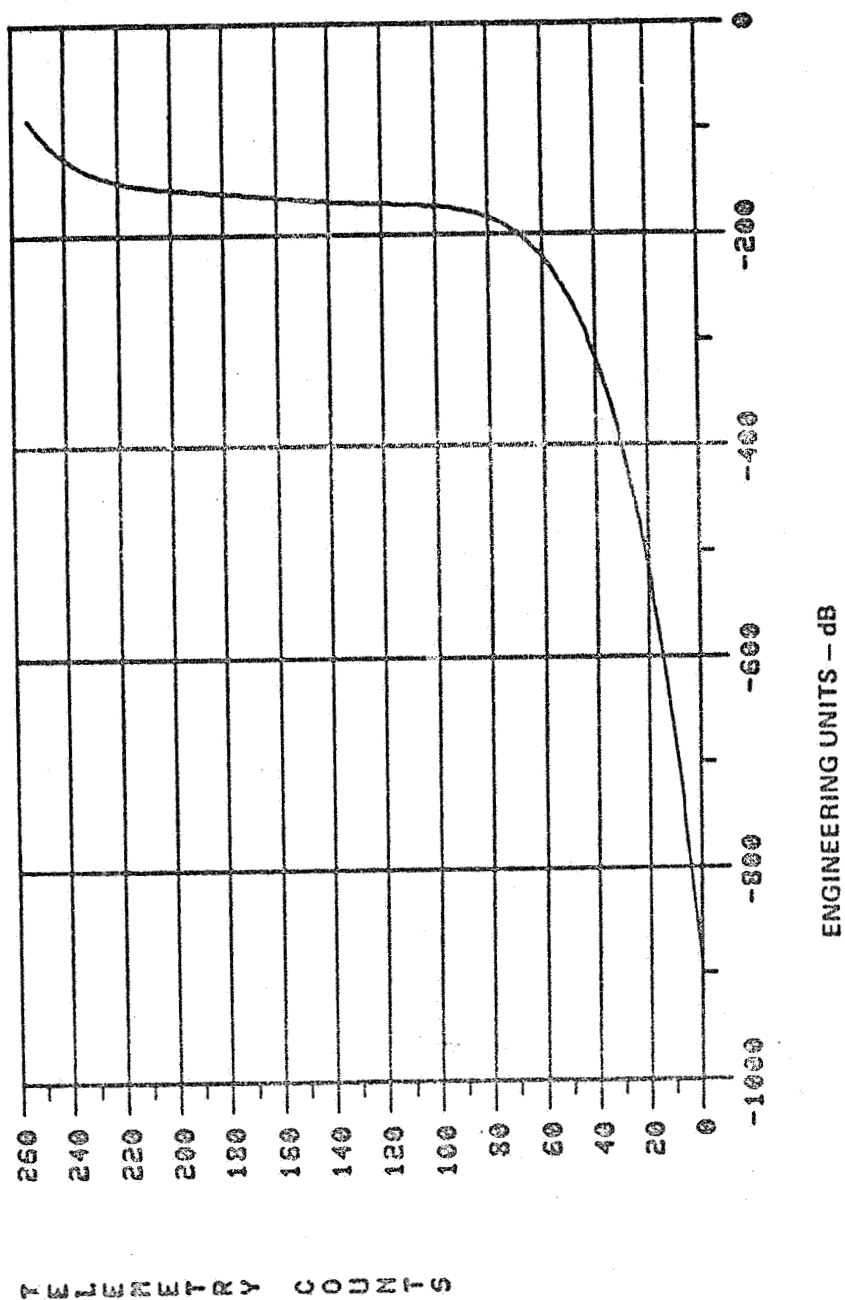


ENGINEERING UNITS - DEGREES

TELEMETRY COUNTS

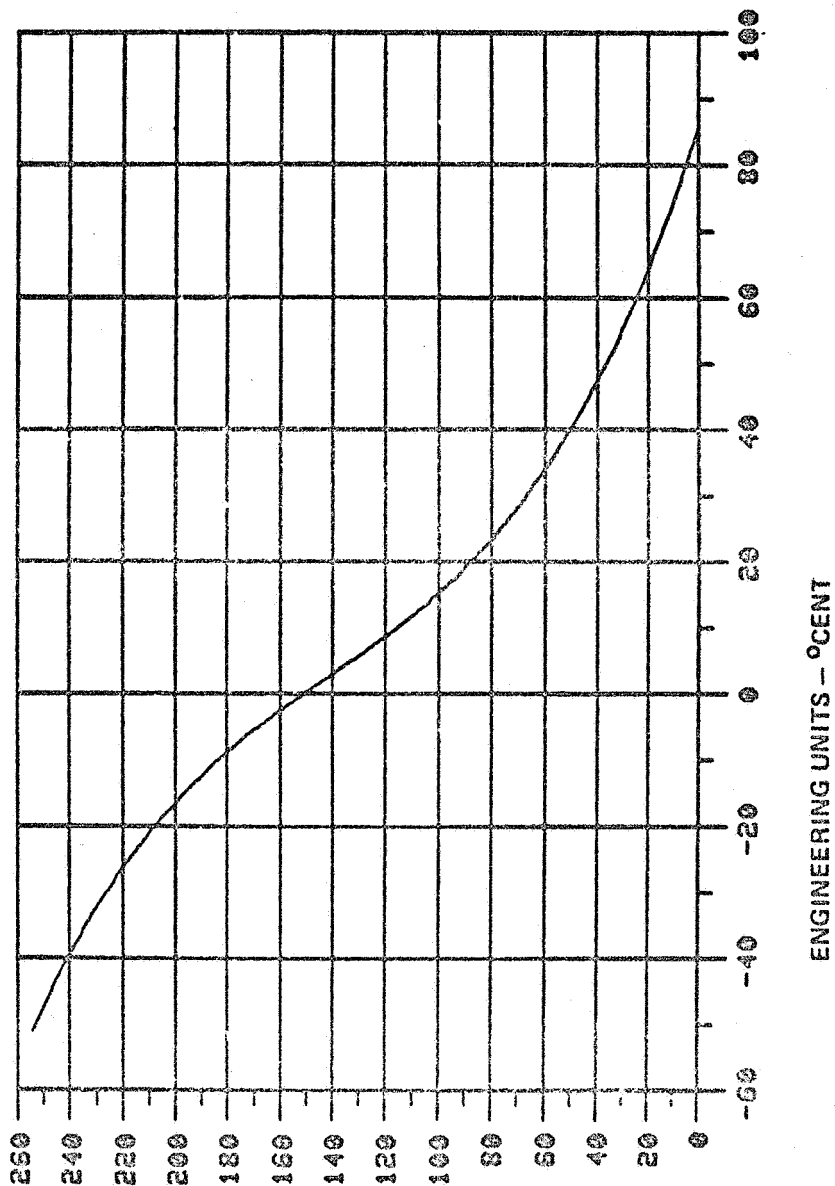
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COUNTS VS ENGINEERING UNITS FOR URATRASS



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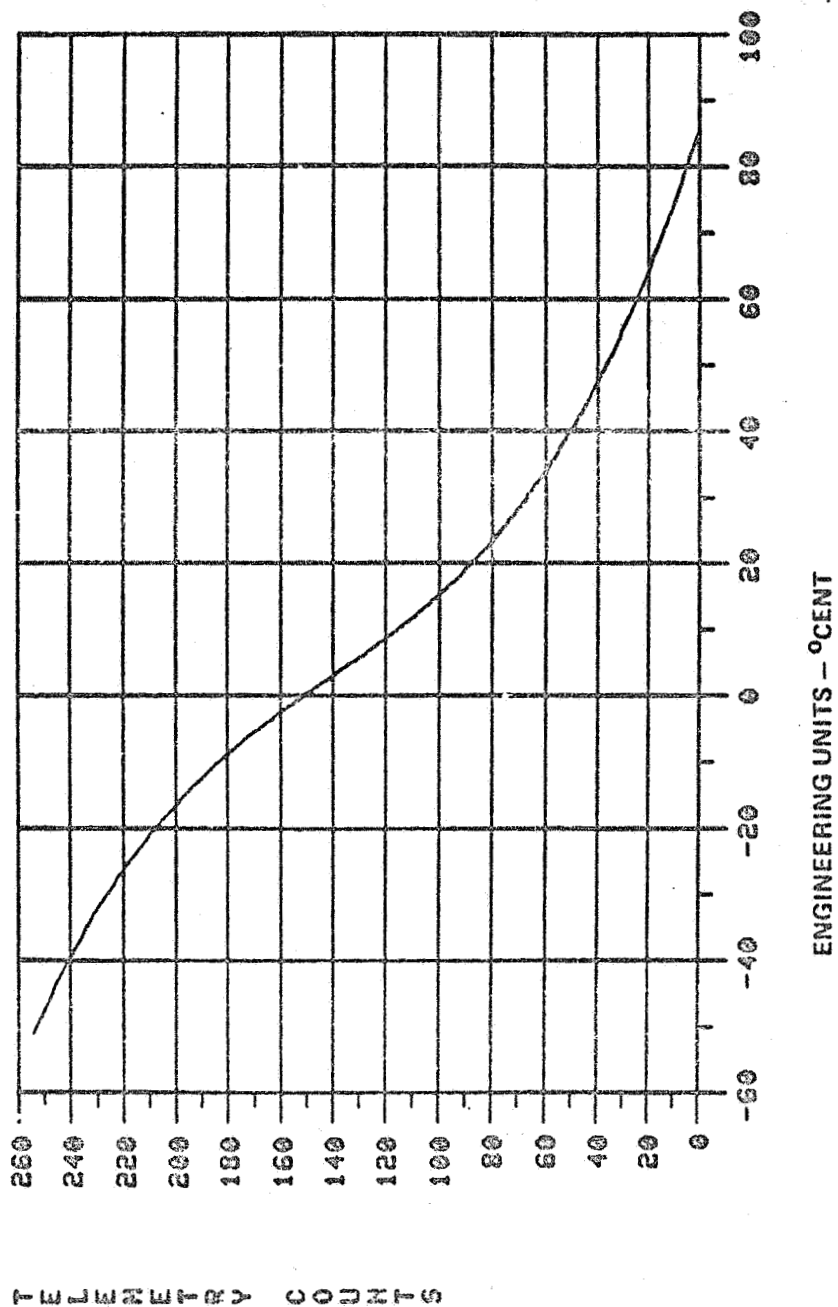
COUNTS VS ENGINEERING UNITS FOR URAZMOTT



TELEMETRY COUNTS

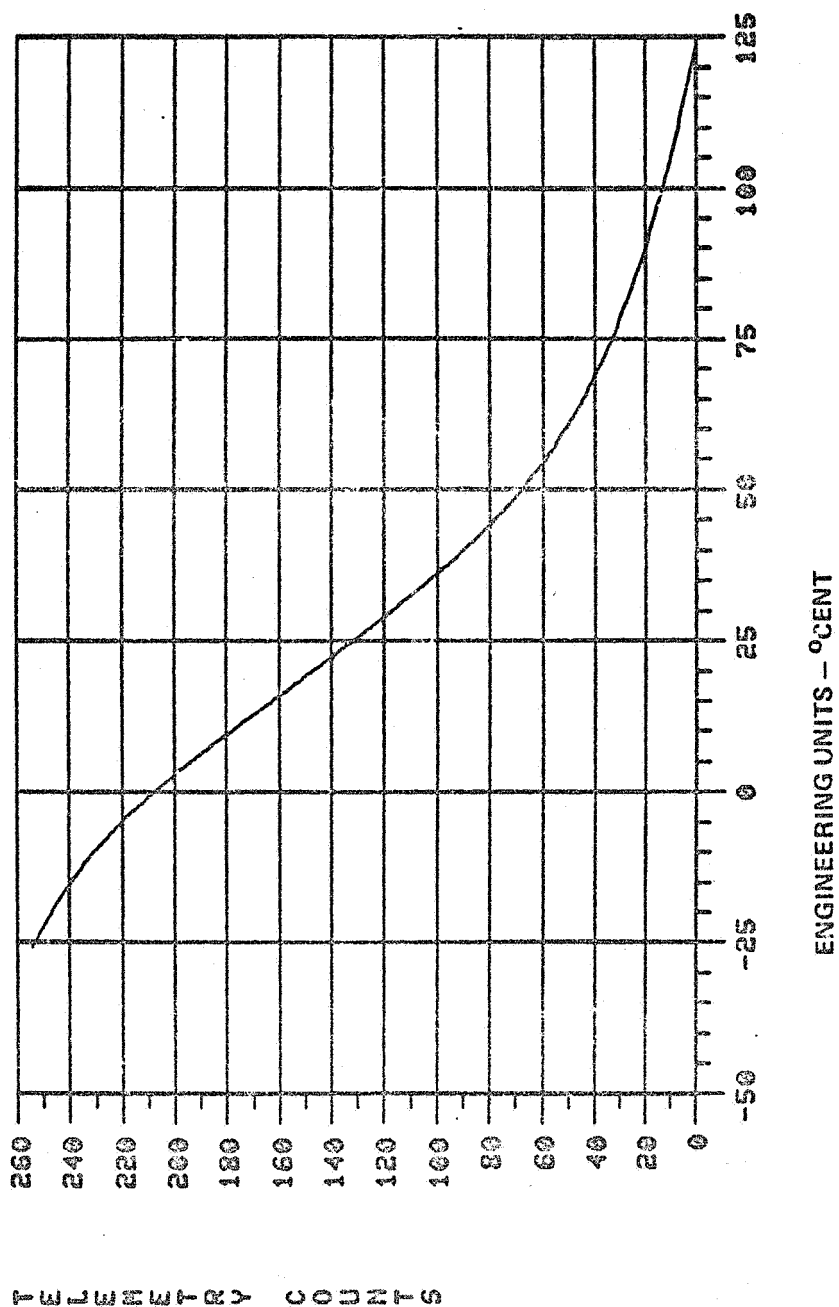
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COUNTS VS ENGINEERING UNITS FOR URELNOTT



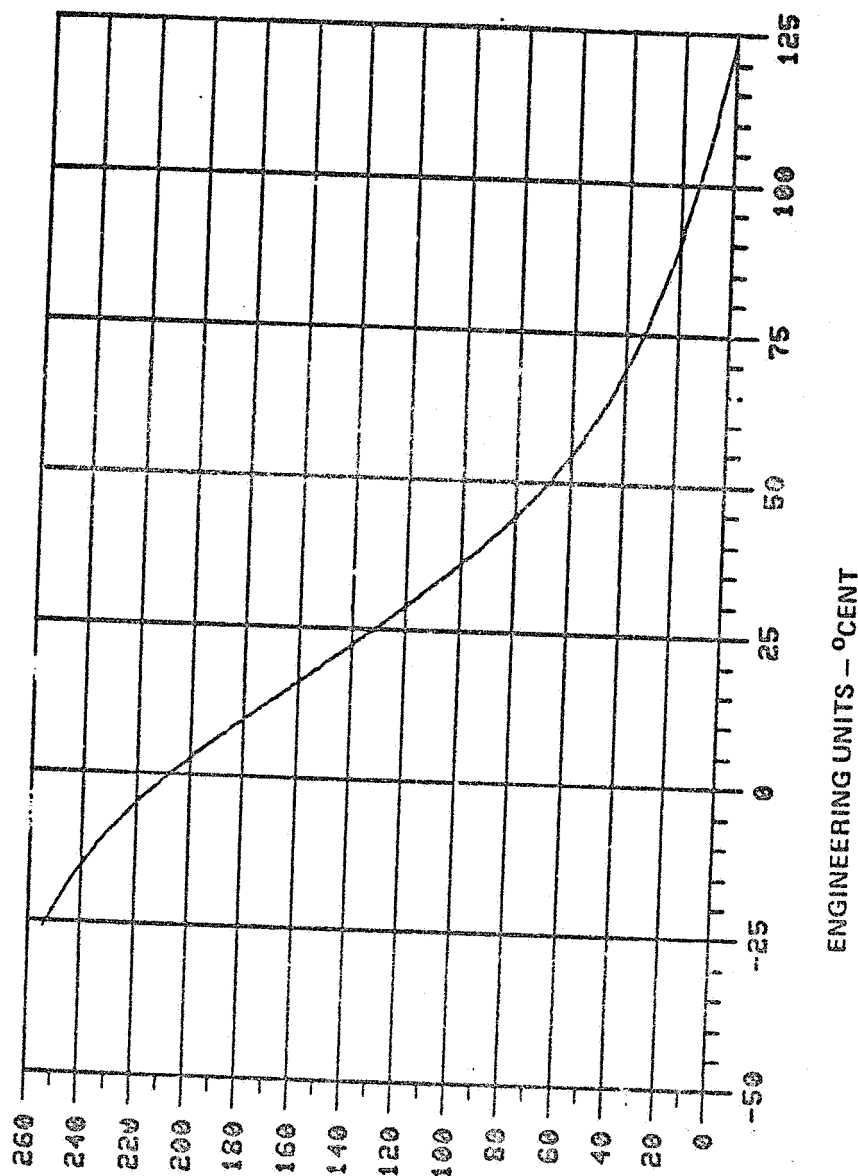
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COUNTS VS ENGINEERING UNITS FOR URTSAT



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COUNTS VS ENGINEERING UNITS FOR URIUBT

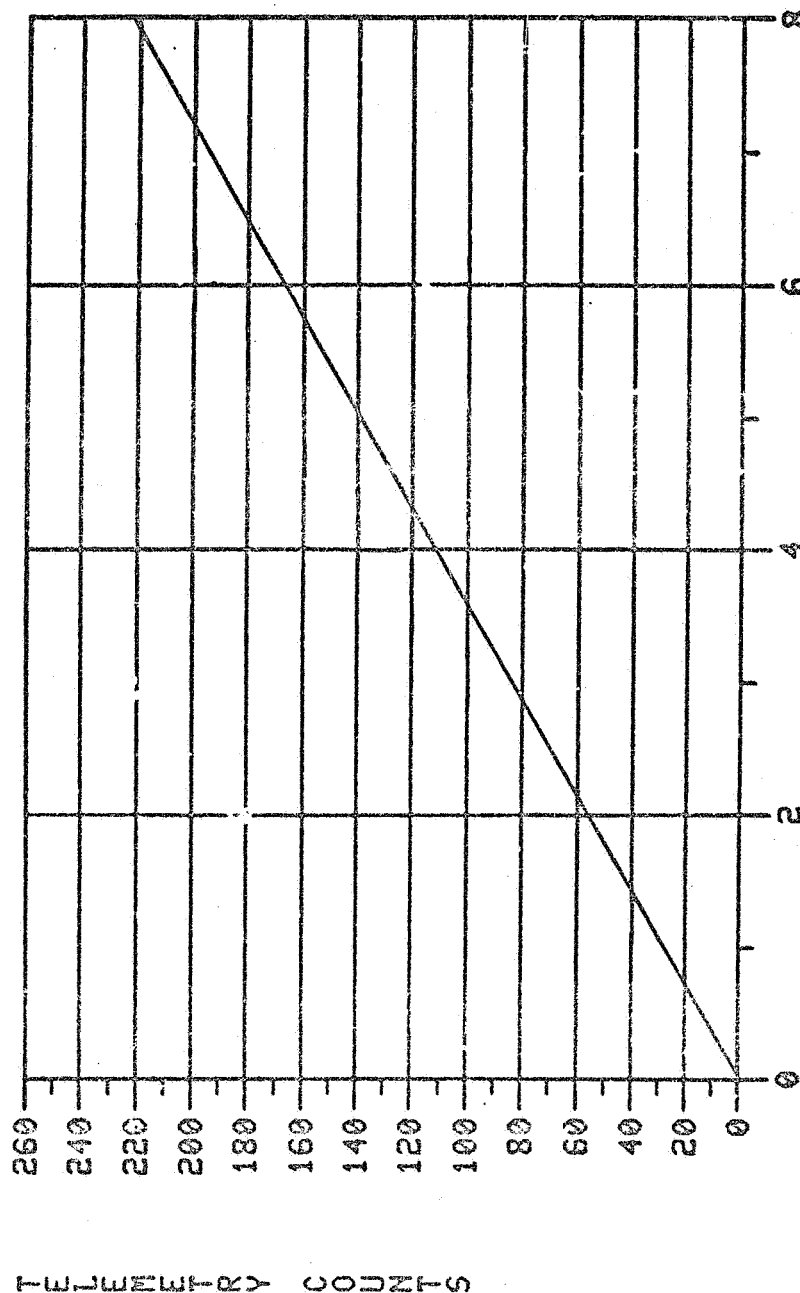


TELEMETRY COUNTS

SVS-10266/3A
Appendix A
June 1982

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COUNTS VS ENGINEERING UNITS FOR URKBUSI



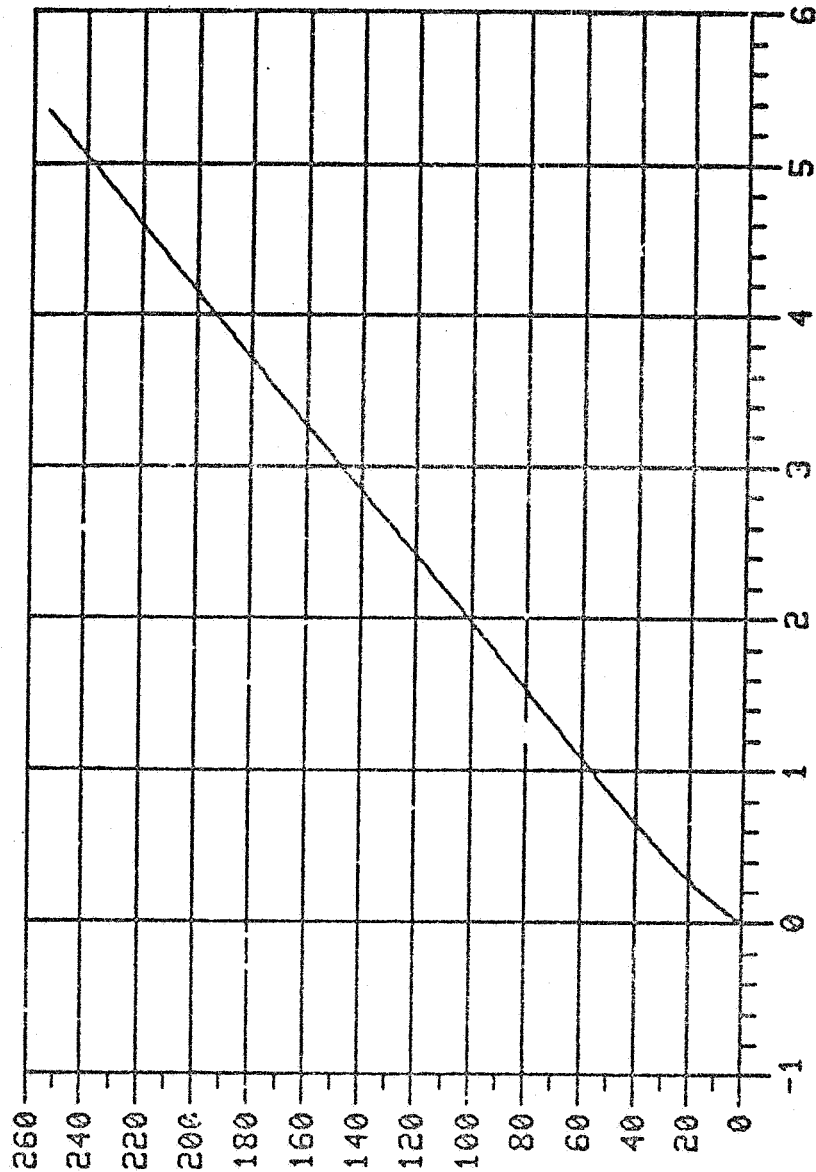
ENGINEERING UNITS - AMPS

TELEMETRY COUNTS

SVS-10266/3A
Appendix A
June 1982

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COUNTS VS ENGINEERING UNITS FOR URKHELI



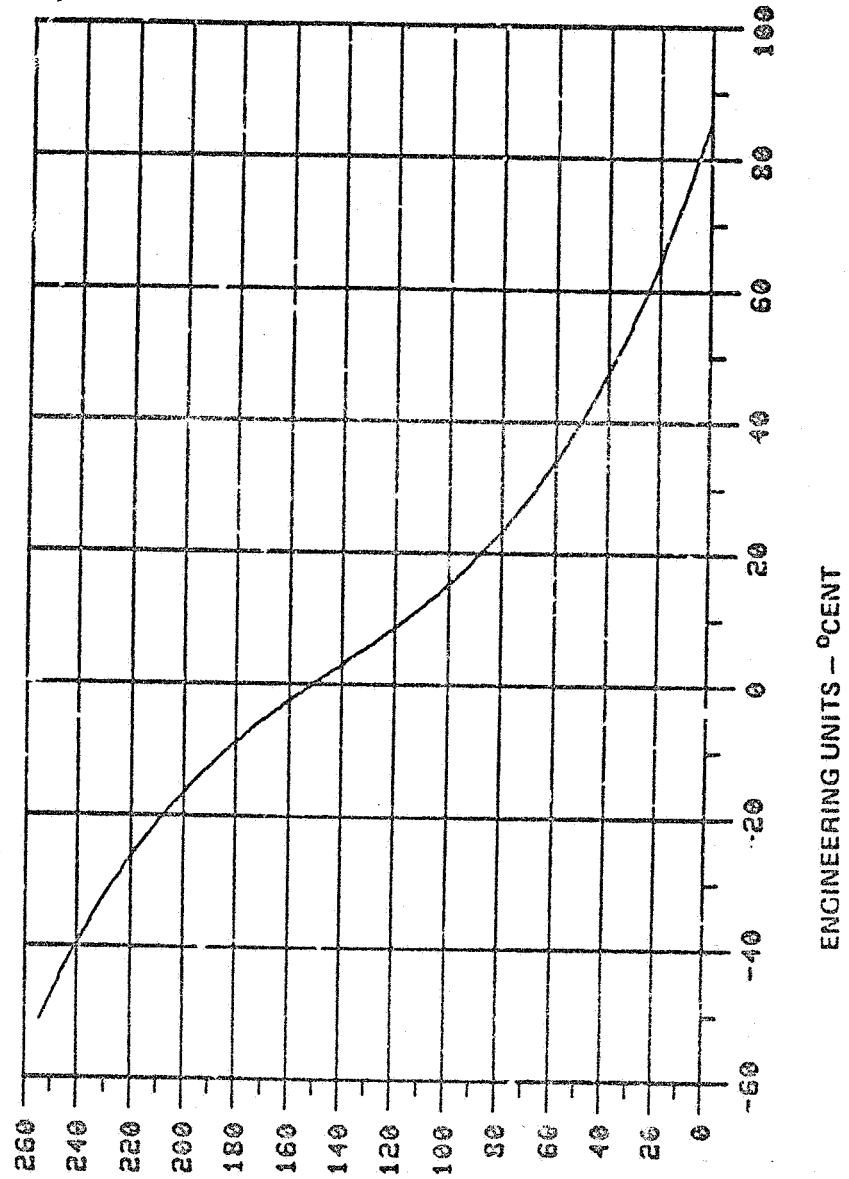
TELEMETRY COUNTS

ENGINEERING UNITS - mAMPS

SVS-10206/3A
Appendix A
June 1982

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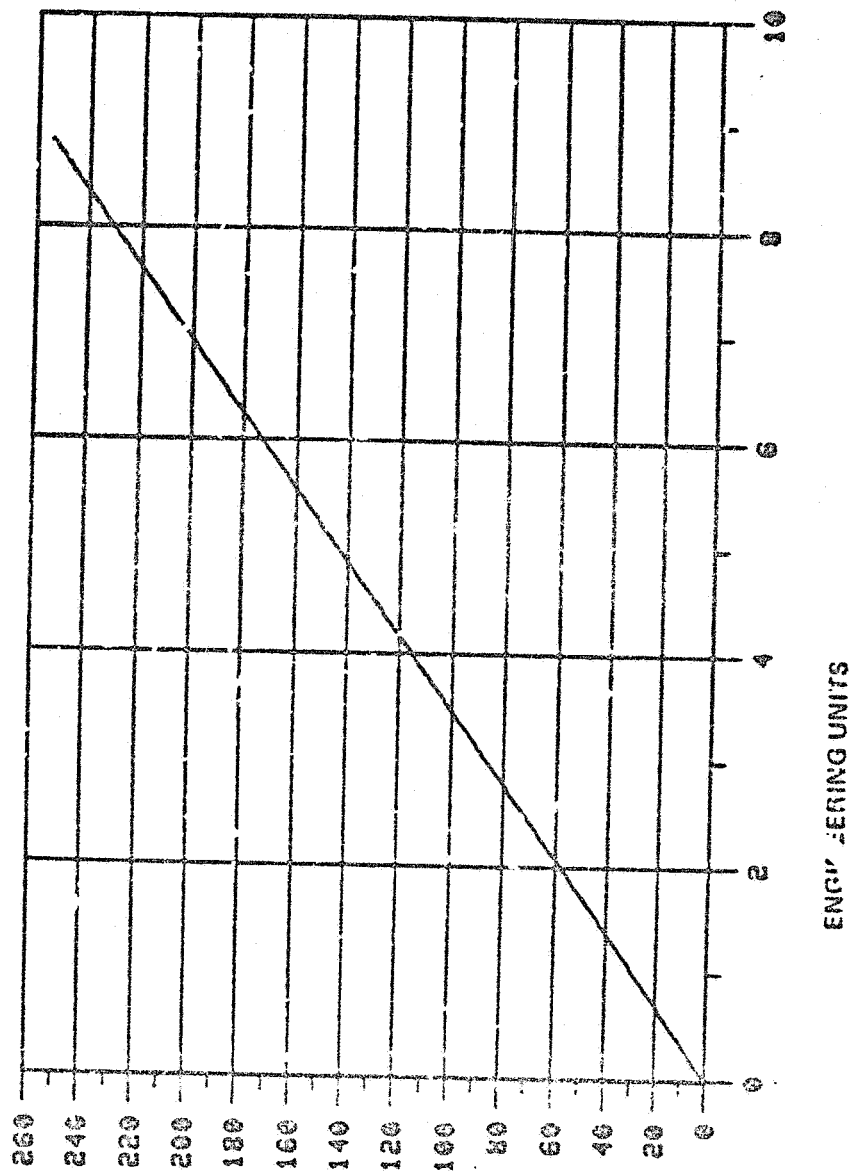
COUNTS VS ENGINEERING UNITS FOR URKTUTBT



TELEMETRY COUNTS

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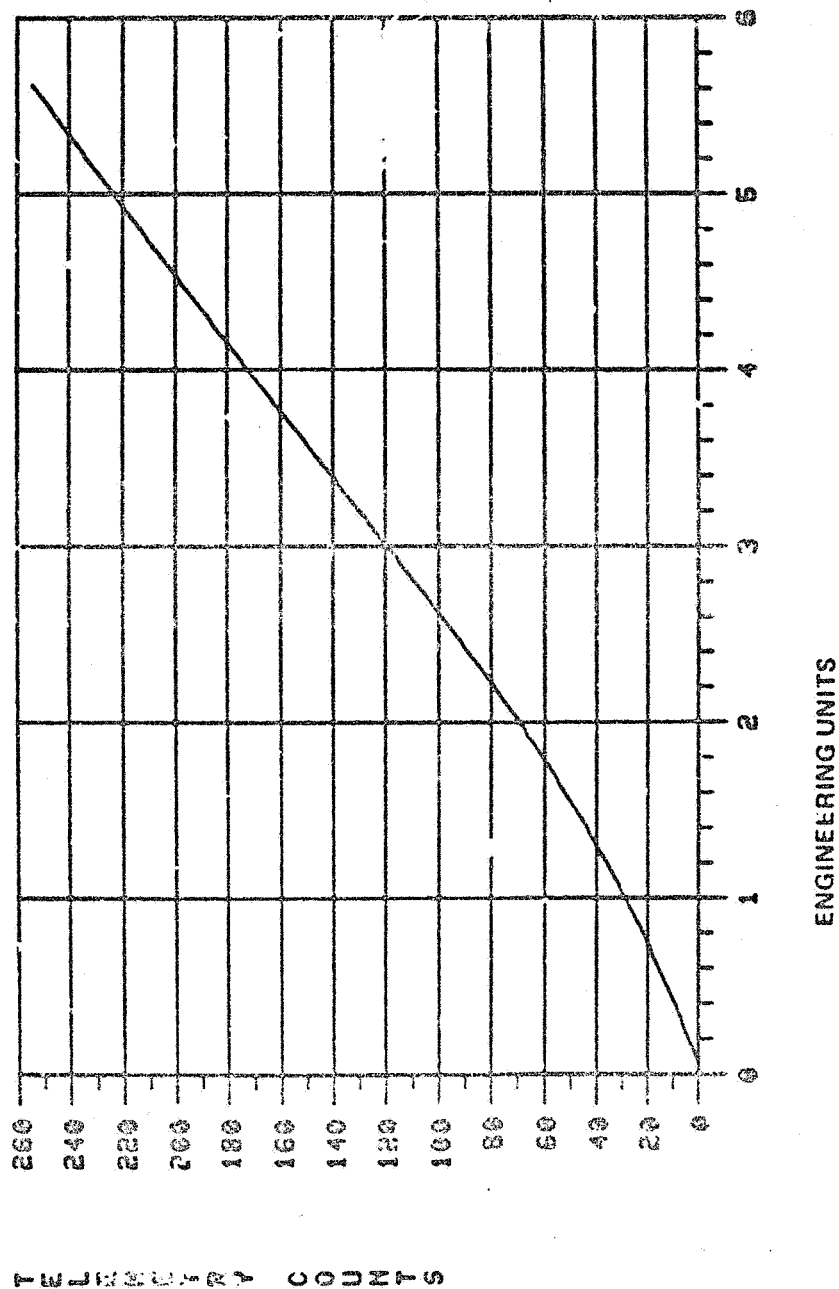
COUNTS VS ENGINEERING UNITS FOR URPUCONU



FEBRUARY COUNTS

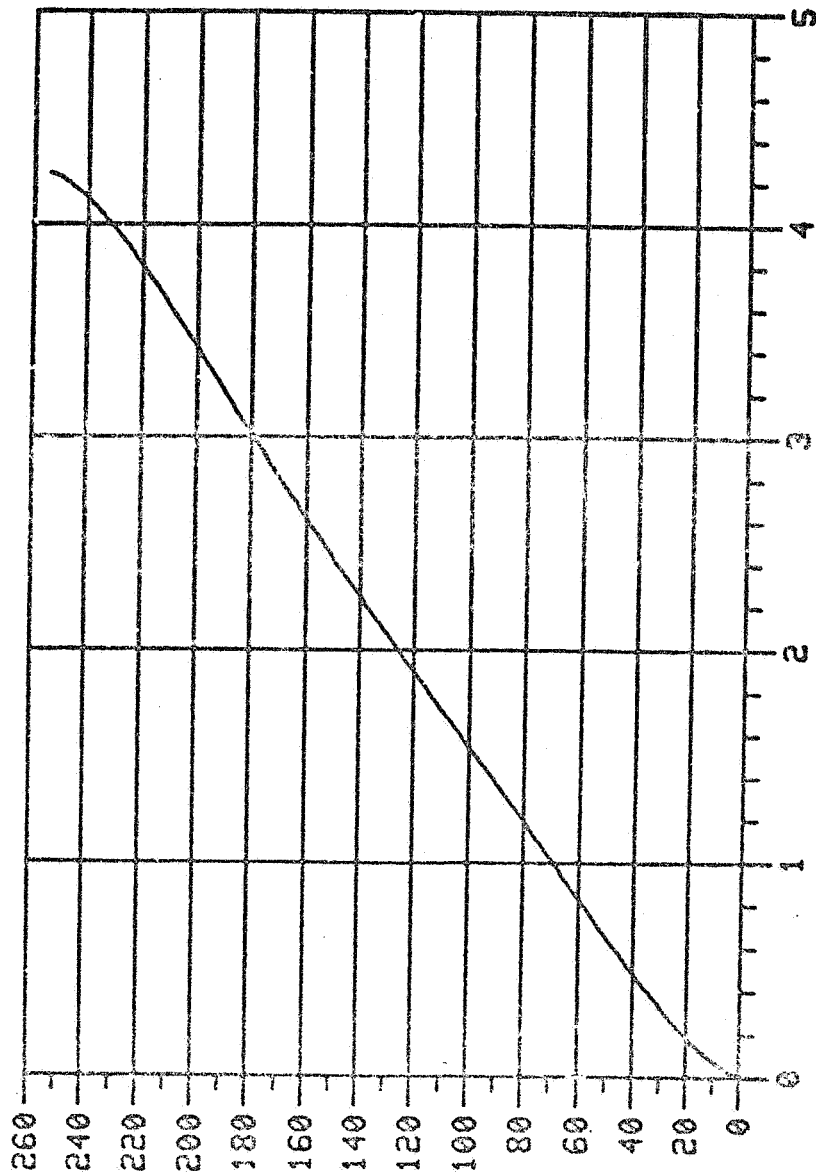
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COUNTS VS ENGINEERING UNITS FOR URXDUSI



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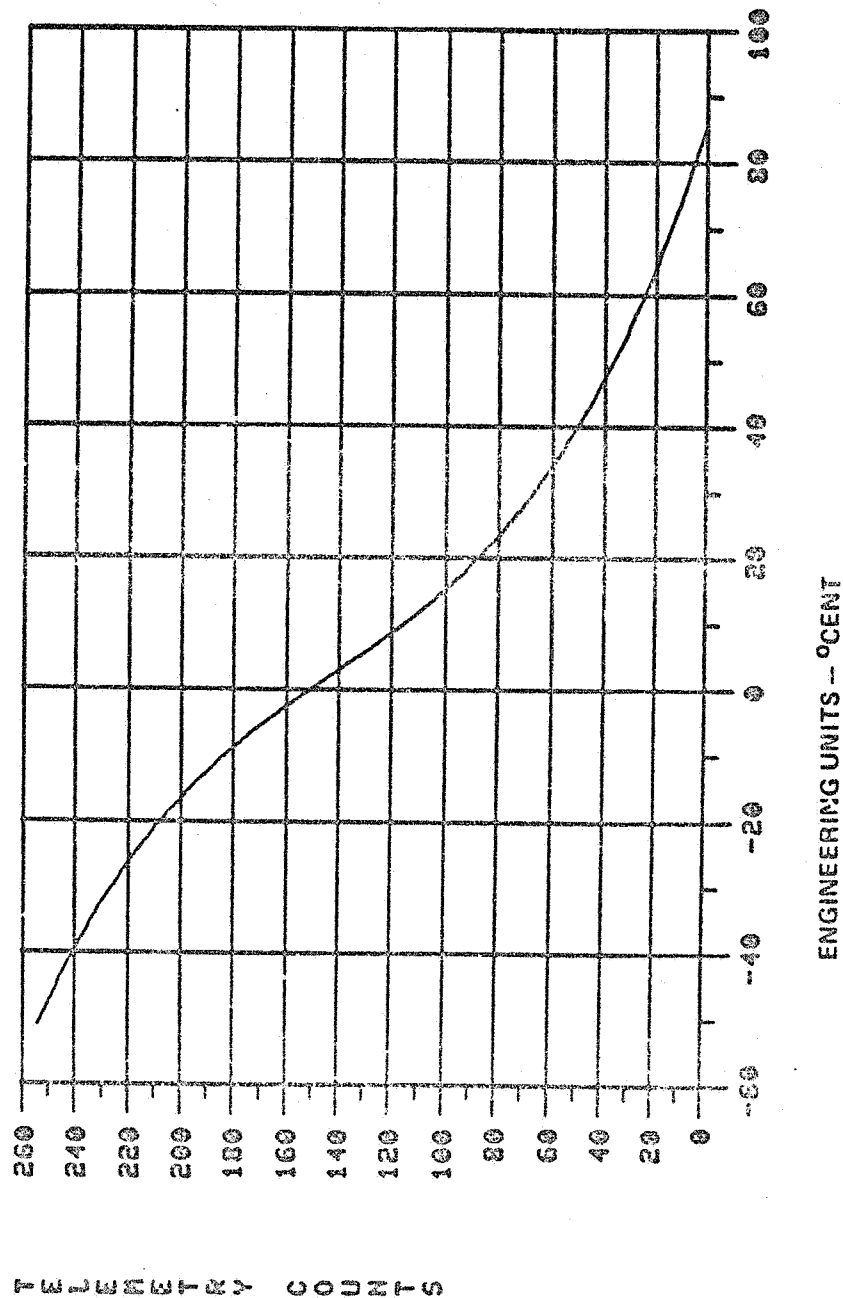


ENGINEERING UNITS - mAMPS

TELEMETRY COUNTS

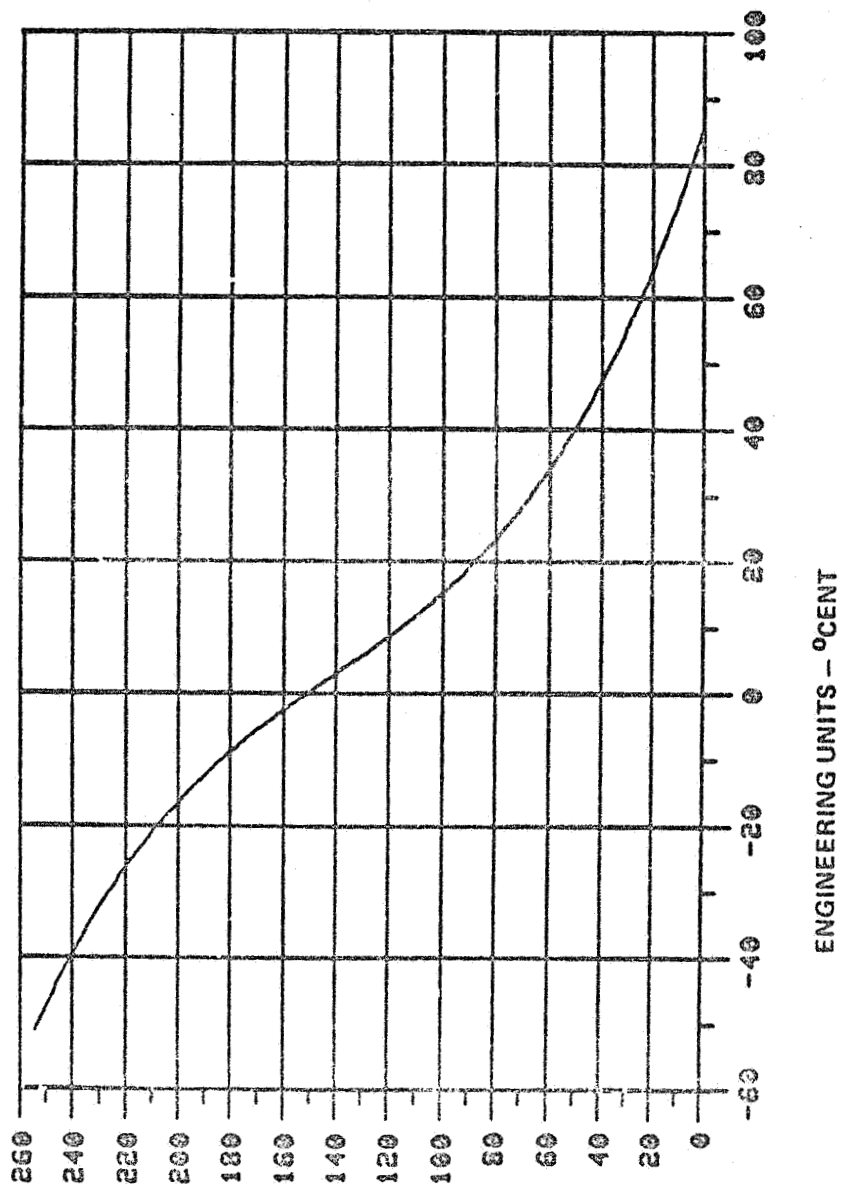
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COUNTS VS ENGINEERING UNITS FOR URXTUTAT



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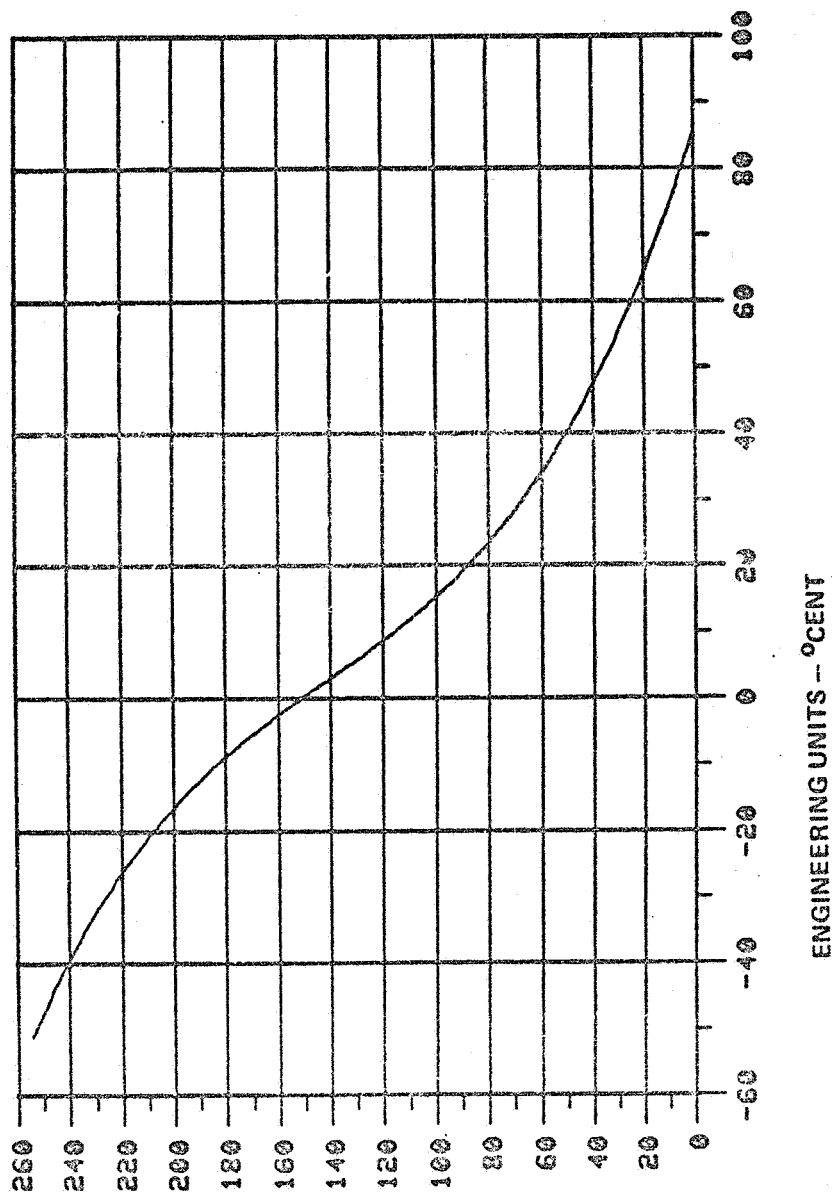
COUNTS VS ENGINEERING UNITS FOR USPAREIT



TELEMETRY COUNTS

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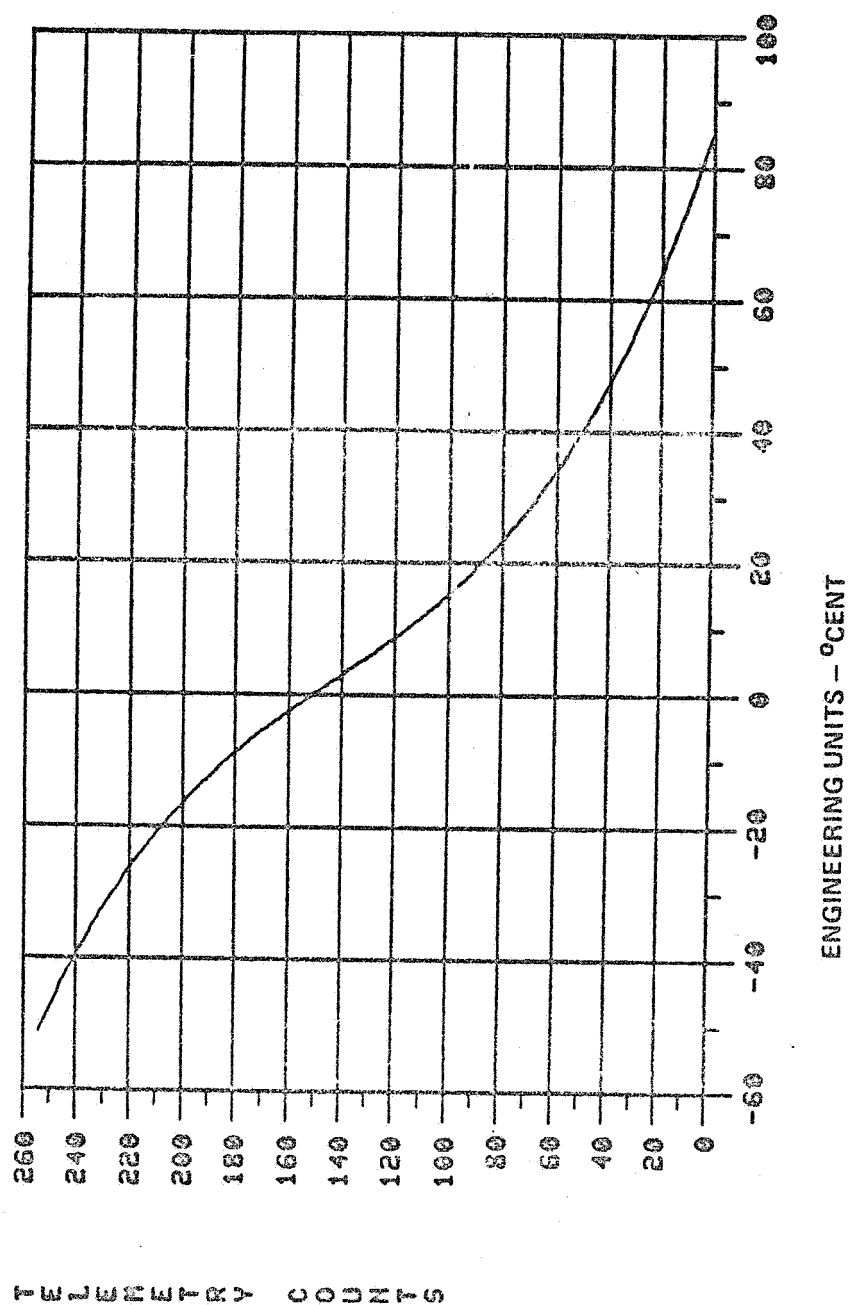
COUNTS US ENGINEERING UNITS FOR USPARE2



TELEMETRY COUNTS

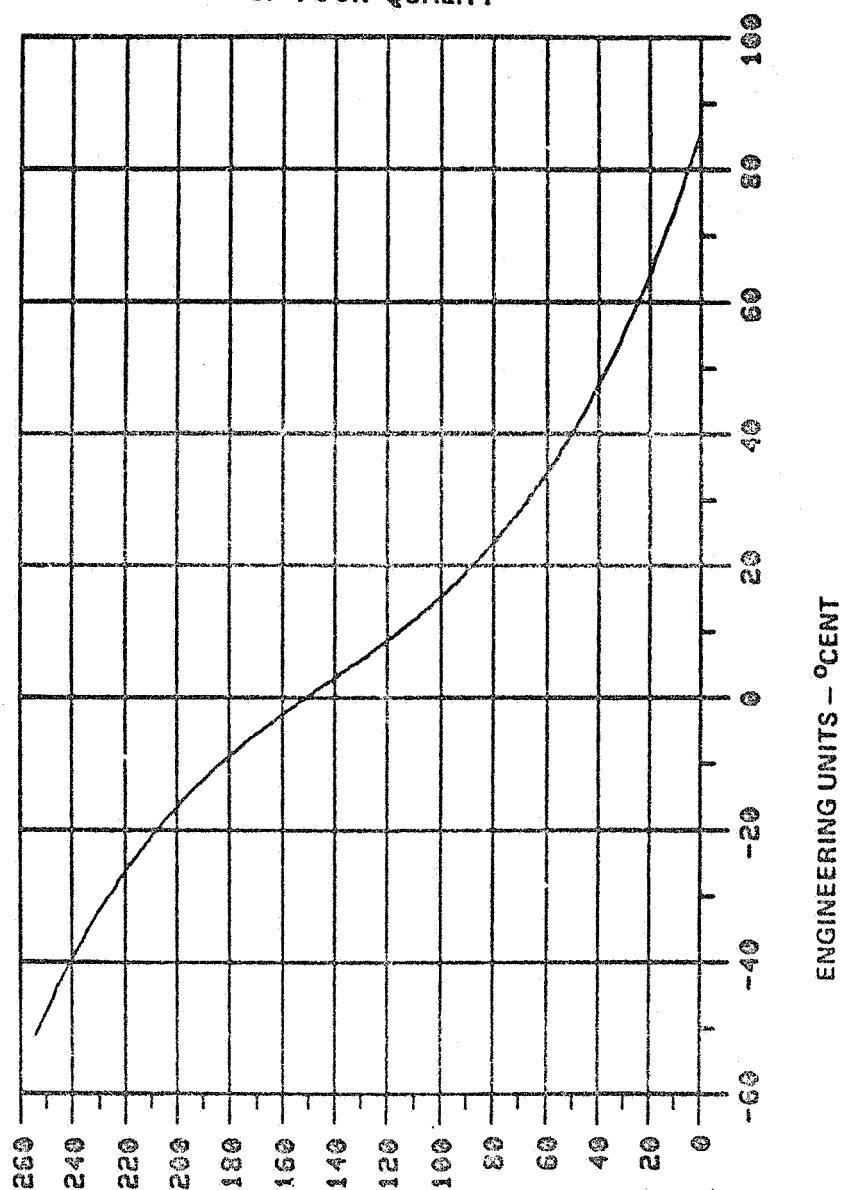
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COUNTS VS ENGINEERING UNITS FOR UTUTSIDT



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COUNTS US ENGINEERING UNITS FOR UXFST



TELEMETRY COUNTS

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SVS-10266/3A
Appendix A
June 1982

APPENDIX A.14

THEMATIC MAPPER (TM) TELEMETRY CALIBRATION DATA

The calibration curve coefficients for each telemetry point are controlled in the data base. They are listed along with the unit section number where the sensor is located. Tables showing the coefficients may be obtained from the data base administrator. The tables show telemetry volts (counts) vs. engineering units.

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;*****
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; TM CONV. DEF.
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; THERMAL POINT DEF.
; TM POINT DEF.

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POINT TAEPAT ; AMB EVEN PRE-AMP TEMP in deg. centigrade
COEFF TAEPAT ; 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT TAFTSMT ; SMA -X FLEX PIVOT TEMP in deg. centigrade
COEFF TAFTSMT ; 58.812,-0.40214,.72713E-3
POINT TAOPAT ; AMB ODD PREAMP TEMP in deg. centigrade
COEFF TAOPAT ; 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT TB6PAT ; BAND 6 POST AMP TEMP in deg. centigrade
COEFF TB6PAT ; 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT TBAFFT ; BAFFLE TEMP in deg. centigrade
COEFF TBAFFT ; -2.9072,.089583,.27115E-3
POINT TBBHTRI ; BLACKBODY HEATER CURRENT in
COEFF TBBHTRI ; 0.0,0.09755
POINT TBBT ; BLACKBODY TEMPERATURE in deg. centigrade
COEFF TBBT ; 17.073,0.10263,.22576E-3
POINT TBFHTRI ; BAFFLE HEATER CURRENT in
COEFF TBFHTRI ; 0.0,2.3474
POINT TBITDEN ; MULTIPLEXER AVG BIT DENSITY in
COEFF TBITDEN ; 7.2254,-.023958,.866E-5
POINT TBUST ; BACK-UP SHUTTER TEMP in deg. centigrade
COEFF TBUST ; 36.898,-.1598,.1957E-5
POINT TCALSHI ; CAL SHUTTER HUB TEMP in deg. centigrade
COEFF TCALSHI ; 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT TCALST ; CAL SHUTTER TEMP in deg. centigrade
COEFF TCALST ; 36.898,-.1598,.1957E-5
POINT TCAST ; COOLER AMP STAGE TEMP in deg. centigrade
COEFF TCAST ; 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT TCDT ; COOLER DOOR TEMP in deg. centigrade
COEFF TCDT ; 121.23,-1.9147,.019275,-1.1865E-4,3.7343
POINT TCFPACT ; COLD FOCAL PLANE ASSY CNTRL TEMP in deg. centigrade
COEFF TCFPACT ; -162.94,-0.1
POINT TCFPAHI ; COLD FOCAL PLANE ASSY HTR CURRENT in
COEFF TCFPAHI ; -.014284,0.028571
POINT TCFPAMT ; COLD FOCAL PLANE ARRAY MONITOR TEMP in deg. centigrade
COEFF TCFPAMT ; -162.94,-0.1
POINT TCPAT ; COLD PREAMP TEMP in deg. centigrade
COEFF TCPAT ; 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT TCSCCT ; COLD STAGE TEMP A (COLD) in deg. centigrade
COEFF TCSCCT ; -147.82,-.21332,.507E-4
POINT TCSHT ; COLD STAGE TEMP B (HOT) in deg. centigrade
COEFF TCSHT ; 52.593,-1.3009,.11118E-2
POINT TCSHTRI ; COLD STAGE HEATER CURRENT in
COEFF TCSHTRI ; 0.0,1.9801
POINT TDWNSMT ; SMA +Z HOUSING TEMP in deg. centigrade
COEFF TDWNSMT ; 58.812,-.40214,.72713E-3
POINT TFWDSMT ; SMA +X FLEX PIVOT TEMP in deg. centigrade

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COEFF	TFWDSMT	, 58.812,-0.40214,.72713E-3
POINT	TISCT	; INTERMEDIATE STAGE TEMP A in deg. centigrade
COEFF	TISCT	, -0.1029E+3,-0.18536E00,.2145E-4
POINT	TISHT	; INTERMEDIATE STAGE TEMP B in deg. centigrade
COEFF	TISHT	, 52.392,-1.1739,.10848E-2
POINT	TIW1POS	; INCHWORM 1 POSITION in
COEFF	TIW1POS	, -.015059,.11999E-3
POINT	TIW2POS	; INCHWORM 2 POSITION in
COEFF	TIW2POS	, -.015059,.11999E-3
POINT	TIW3POS	; INCHWORM 3 POSITION in
COEFF	TIW3POS	, -.015059,.11999E-3
POINT	TLMPDRT	; CAL LAMP DRIVER TEMP in deg. centigrade
COEFF	TLMPDRT	, 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT	TLMPFT	; CAL LAMP FILTER TEMP in deg. centigrade
COEFF	TLMPFT	, 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT	TLMPSTA3	; TM CAL LAMP 3 STATUS in
COEFF	TLMPSTA3	, 0.0,.710553
POINT	TM119VN	; BAND 1 -19V SUPP VOLTAGE in volts
COEFF	TM119VN	, 0.0,-0.10925
POINT	TM119VP	; BAND 1 +19V SUPP VOLTAGE in volts
COEFF	TM119VP	, 0.0,0.10992
POINT	TM127VN	; PWR SUPP 1 -27V SMA SUPP VLTG in volts
COEFF	TM127VN	, 0.0,-0.15253
POINT	TM127VP	; PWR SUPP 1 +27V SMA SUPP VLTG in volts
COEFF	TM127VP	, 0.0,0.14604
POINT	TM17V	; PWR SUPP 1 +6.8V SMA SUPP VLTG in volts
COEFF	TM17V	, 0.0,0.031333
POINT	TM19VN	; -19V HI CURRENT SUPP MONITOR in volts
COEFF	TM19VN	, 0.0,-0.1149
POINT	TM19VP	; +19V HI CURRENT SUPP MONITOR in volts
COEFF	TM19VP	, 0.0,0.11173
POINT	TM1ADVR	; BAND 1 A/D REFERENCE VLTG in
COEFF	TM1ADVR	, 0.0,0.0200
POINT	TM219VN	; BAND 2 -19V SUPP VOLTAGE in volts
COEFF	TM219VN	, 0.0,-0.10941
POINT	TM219VP	; BAND 2 +19V SUPP VOLTAGE in volts
COEFF	TM219VP	, 0.0,0.10903
POINT	TM227VN	; PWR SUPP 2 -27V SMA SUPP VLTG
COEFF	TM227VN	, 0.0,-0.16046
POINT	TM227VP	; PWR SUPP 2 +27V SMA SUPP VLTG
COEFF	TM227VP	, 0.0,0.14571
POINT	TM27V	; PWR SUPP 2 +6.8V SMA SUPP VLTG
COEFF	TM27V	, 0.0,0.031229
POINT	TM2ADVR	; BAND 2 A/D REFERENCE VLTG
COEFF	TM2ADVR	, 0.0,0.0200
POINT	TM319VN	; BAND 3 -19V SUPP VOLTAGE in volts
COEFF	TM319VN	, 0.0,-0.10896
POINT	TM319VP	; BAND 3 +19V SUPP VOLTAGE in volts
COEFF	TM319VP	, 0.0,0.10956
POINT	TM33V	; +33V SHUTTER DRIVE VOLTAGE in
COEFF	TM33V	, 0.0,0.16305
POINT	TM3ADVR	; BAND 3 A/D REFERENCE VLTG in
COEFF	TM3ADVR	, 0.0,0.0200
POINT	TM419VN	; BAND 4 -19V SUPP VOLTAGE in volts
COEFF	TM419VN	, 0.0,-0.10902
POINT	TM419VP	; BAND 4 +19V SUPP VOLTAGE in volts

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COEFF	TM419VP	, 0.0,0.10954
POINT	TM4ADVR	; BAND 4 A/D REFERENCE VLTG in
COEFF	TM4ADVR	, 0.0,0.0200
POINT	TM519VN	; BAND 5/7 -19V SUPP VOLTAGE in volts
COEFF	TM519VN	, 0.0,-0.10990
POINT	TM519VP	; BAND 5/7 +19V SUPP VOLTAGE in volts
COEFF	TM519VP	, 0.0,0.10937
POINT	TM5ADVR	; BAND 5 A/D REFERENCE VLTG in
COEFF	TM5ADVR	, 0.0,0.0200
POINT	TM619VN	; BAND 6 -19V SUPP VOLTAGE in volts
COEFF	TM619VN	, 0.0,-0.11147
POINT	TM619VP	; BAND 6 +19V SUPP VOLTAGE in volts
COEFF	TM619VP	, 0.0,0.10832
POINT	TM7ADVR	; BAND 7 A/D REFERENCE VLTG in
COEFF	TM7ADVR	, 0.0,0.0200
POINT	TM80V	; +80V HTR SUPP VOLTAGE in volts
COEFF	TM80V	, 0.0,0.4020
POINT	TM8V	; +8V SUPPLY MONITOR in volts
COEFF	TM8V	, 0.0,0.036511
POINT	TMIS19VN	; ISOLATED -19V SUPP VOLTAGE in volts
COEFF	TMIS19VN	, 0.0,-0.10969
POINT	TMIS19VP	; ISOLATED +19V SUPP VOLTAGE in volts
COEFF	TMIS19VP	, 0.0,0.10954
POINT	TMLMP1I	; CAL LAMP 1 CURRENT in
COEFF	TMLMP1I	, 0.0,0.671969
POINT	TMLMP2I	; CAL LAMP 2 CURRENT in
COEFF	TMLMP2I	, 0.0,0.710553
POINT	TMLMP3I	; CAL LAMP 3 CURRENT in
COEFF	TMLMP3I	, 0.0,0.710553
POINT	TMLMPS	; ALL CAL LAMPS ON in
COEFF	TMLMPS	, 0.0,1.0
POINT	TMPS1I	; PWR SUPP #1 INPUT CURRENT in
COEFF	TMPS1I	, 0.0,0.02
POINT	TMPS2I	; PWR SUPP #2 INPUT CURRENT in
COEFF	TMPS2I	, 0.0,0.02
POINT	TMSLC1I	; SLC 1 DRIVE CURRENT in
COEFF	TMSLC1I	, 1.00,-0.0080
POINT	TMSLC2I	; SLC 2 DRIVE CURRENT in
COEFF	TMSLC2I	, 1.00,-0.0080
POINT	TMUX13VN	; MULTIPLEXER -13V SUPP VLTG in volts
COEFF	TMUX13VN	, 0.0,-0.059269
POINT	TMUX18VP	; MULTIPLEXER +18V SUPP VLTG in volts
COEFF	TMUX18VP	, 0.0,0.084983
POINT	TMUX30V	; +30V MULTIPLEXER SUPP VLTG in volts
COEFF	TMUX30V	, 0.0,0.14282
POINT	TMUX3VN	; MULTIPLEXER -3V SUPP VLTG in volts
COEFF	TMUX3VN	, 0.0,-0.010517
POINT	TMUX5VN	; MULTIPLEXER -5V SUPP VLTG in volts
COEFF	TMUX5VN	, 0.0,-0.0237
POINT	TMUX5VP	; MULTIPLEXER +5V SUPP VLTG in volts
COEFF	TMUX5VP	, 0.0,0.023473
POINT	TMUXET	; MULTIPLEXER ELEC TEMP in deg. centigrade
COEFF	TMUXET	, 114.34,-2.7642,.036171,-.25821E-3,.89301E-6,-.11776E-8
POINT	TMUXI	; MULTIPLEXER INPUT CURRENT in
COEFF	TMUXI	, 0.0,0.01858
POINT	TMUXPST	; MULTIPLEXER PWR SUPP TEMP in deg. centigrade

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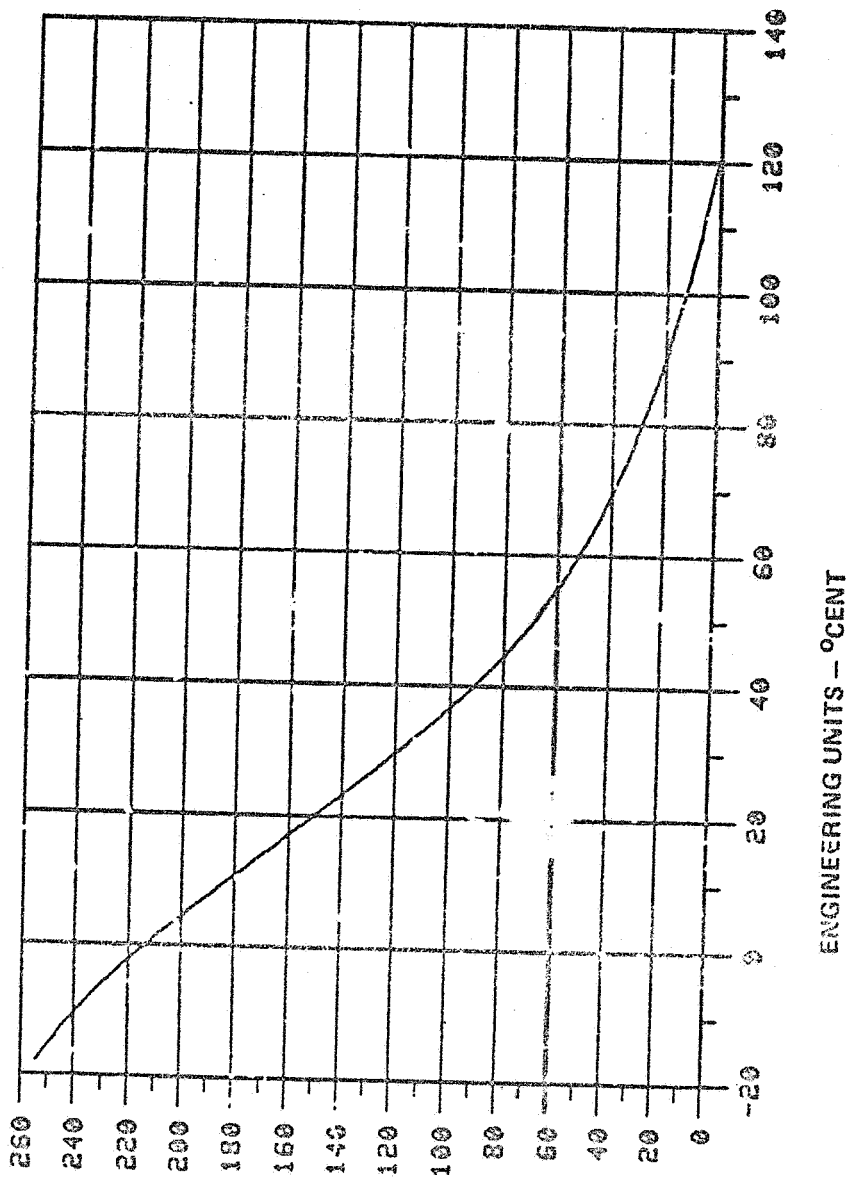
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COEFF	TMUXPST	, 114.34,-2.7692,.036171,-.25321E-3,.69301E-6,-.11776E-8
POINT	TMVU9V	; CDVU +9V SUPP VOLTAGE in volts
COEFF	TMVU9V	, 0.0,0.0357
POINT	TPMMT	; PRI MIRROR MASK TEMP in deg. centigrade
COEFF	TPMMT	, 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT	TPMT	; PRI MIRROR TEMP in deg. centigrade
COEFF	TPMT	, 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT	TPST	; PWR SUPP TEMP in deg. centigrade
COEFF	TPST	, 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT	TRFINT	; +Y RADIATOR FIN TEMP in deg. centigrade
COEFF	TRFINT	, 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT	TROT	; RELAY OPTICS TEMP in deg. centigrade
COEFF	TROT	, 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT	TSAMT	; SCAN ANGLE MONITOR TEMP in deg. centigrade
COEFF	TSAMT	, 58.812,-.40214,.72713E-3
POINT	TSIFPT	; SILICON FOCAL PLANE TEMP in deg. centigrade
COEFF	TSIFPT	, 5.0,0.10724,-3.1113E-4,.10253E-5,-.39292E-8,.94894E-11
POINT	TSL115V	; SLC 1 +/-15V SUPP VLTG in volts
COEFF	TSL115V	, 0.0,0.02
POINT	TSL15VP	; SLC 1 +5V SUPP VLTG in volts
COEFF	TSL15VP	, 0.0,0.040
POINT	TSL215V	; SLC 2 +/-15V SUPP VLTG in volts
COEFF	TSL215V	, 0.0,0.02
POINT	TSL25VP	; SLC 2 +5V SUPP VLTG in volts
COEFF	TSL25VP	, 0.0,0.040
POINT	TSLCT	; SLC TEMP in deg. centigrade
COEFF	TSLCT	, 147.84,-1.8384,.016092,-.92715E-4,.2839E-6,-.36832E-9
POINT	TSMAET	; SMA ELEC TEMP in deg. centigrade
COEFF	TSMAET	, 47.247,-0.48988,.10522E-2
POINT	TSMMT	; SECONDARY MIRROR MASK TEMP in deg. centigrade
COEFF	TSMMT	, 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT	TSMT	; SECONDARY MIRROR TEMP in deg. centigrade
COEFF	TSMT	, 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT	TSST	; SUNSHIELD TEMP in deg. centigrade
COEFF	TSST	, 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT	TTBPT	; TELESCOPE BASEPLATE TEMP in deg. centigrade
COEFF	TTBPT	, 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT	TTHT	; TELESCOPE HOUSING TEMP in deg. centigrade
COEFF	TTHT	, 121.23,-1.9147,.019275,-1.1865E-4,3.7343E-7,-4.7899E-10
POINT	TUPSMT	; SMA -Z HOUSING TEMP in deg. centigrade
COEFF	TUPSMT	, 58.812,-.40214,.72713E-3

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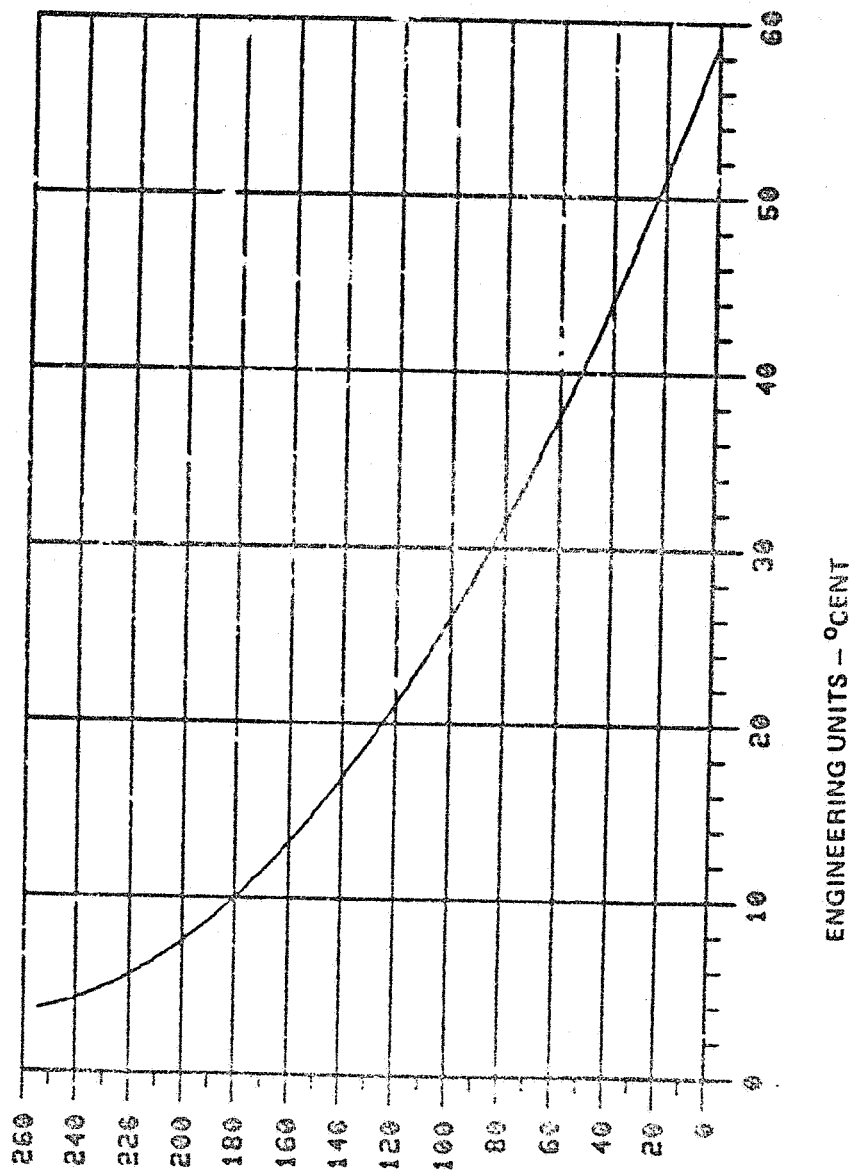
COUNTS VS ENGINEERING UNITS FOR TAEPAT



TELEMETRY COUNTS

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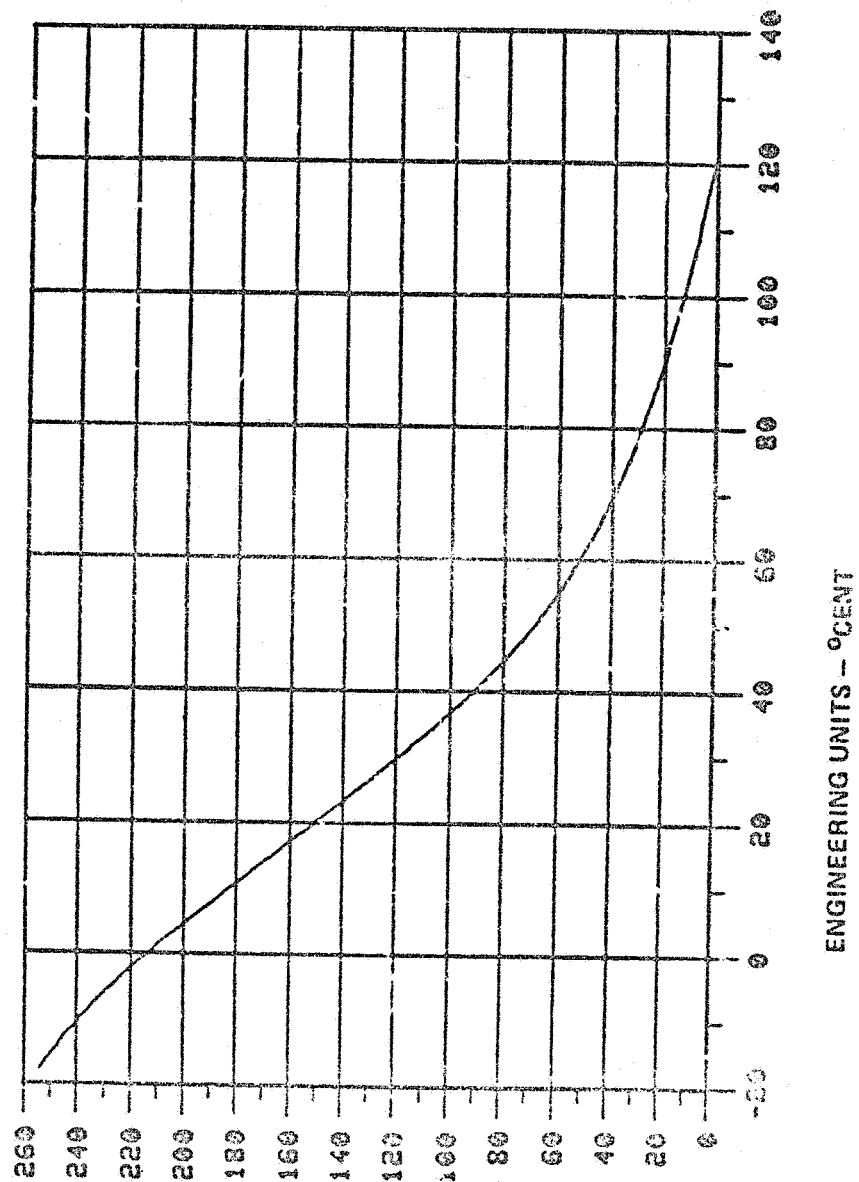
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TELEMETRY COUNTS

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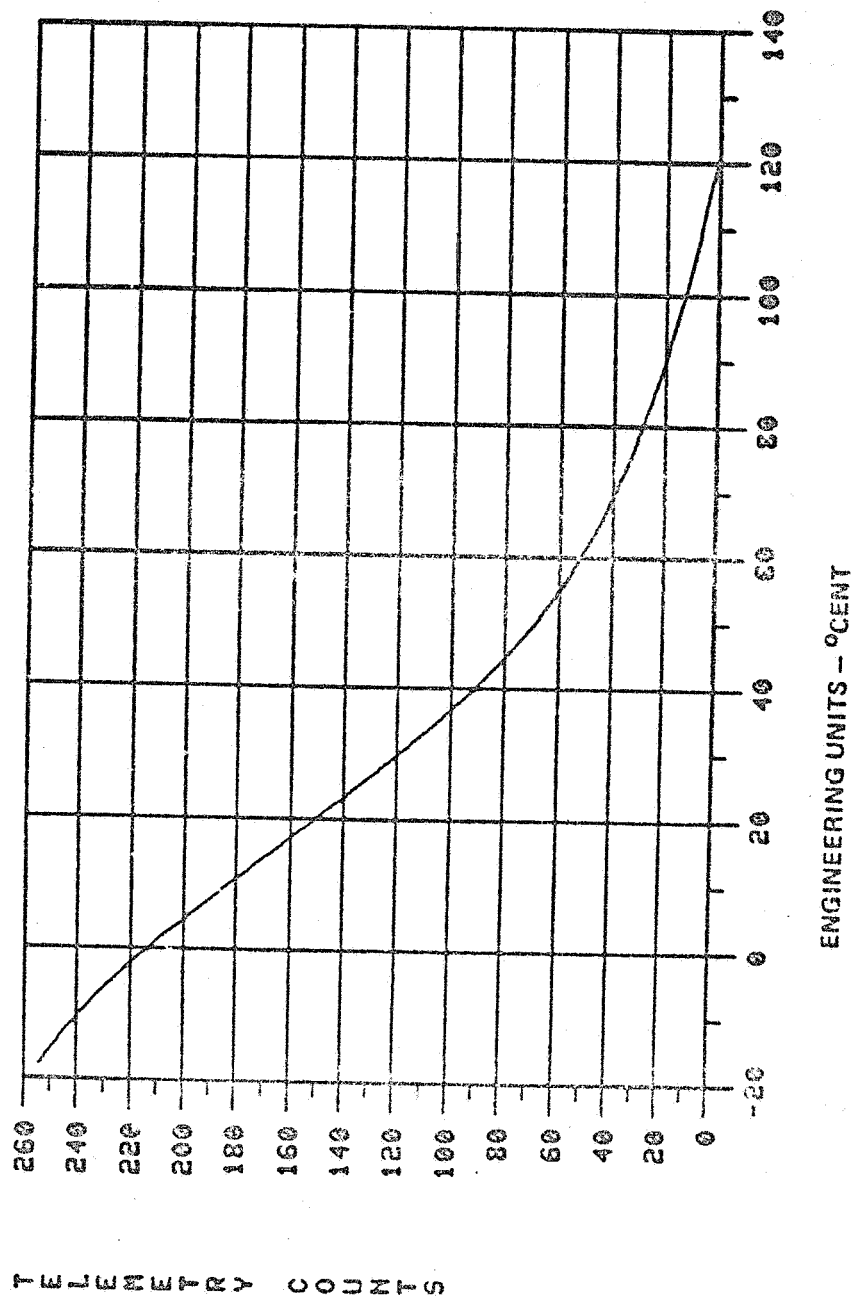
COUNTS VS ENGINEERING UNITS FOR TAOPAT



TELEMETRY COUNTS

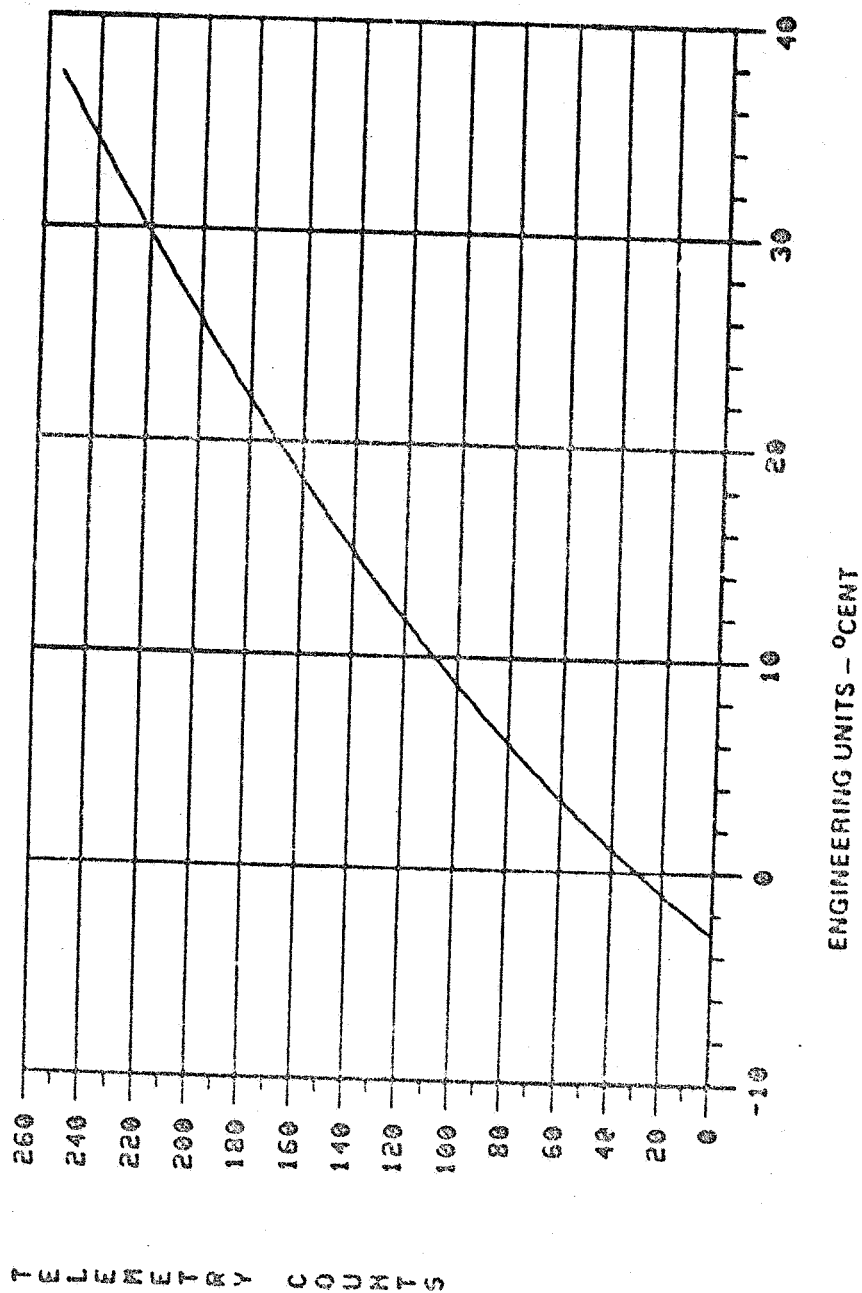
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COUNTS VS ENGINEERING UNITS FOR TB6PAT



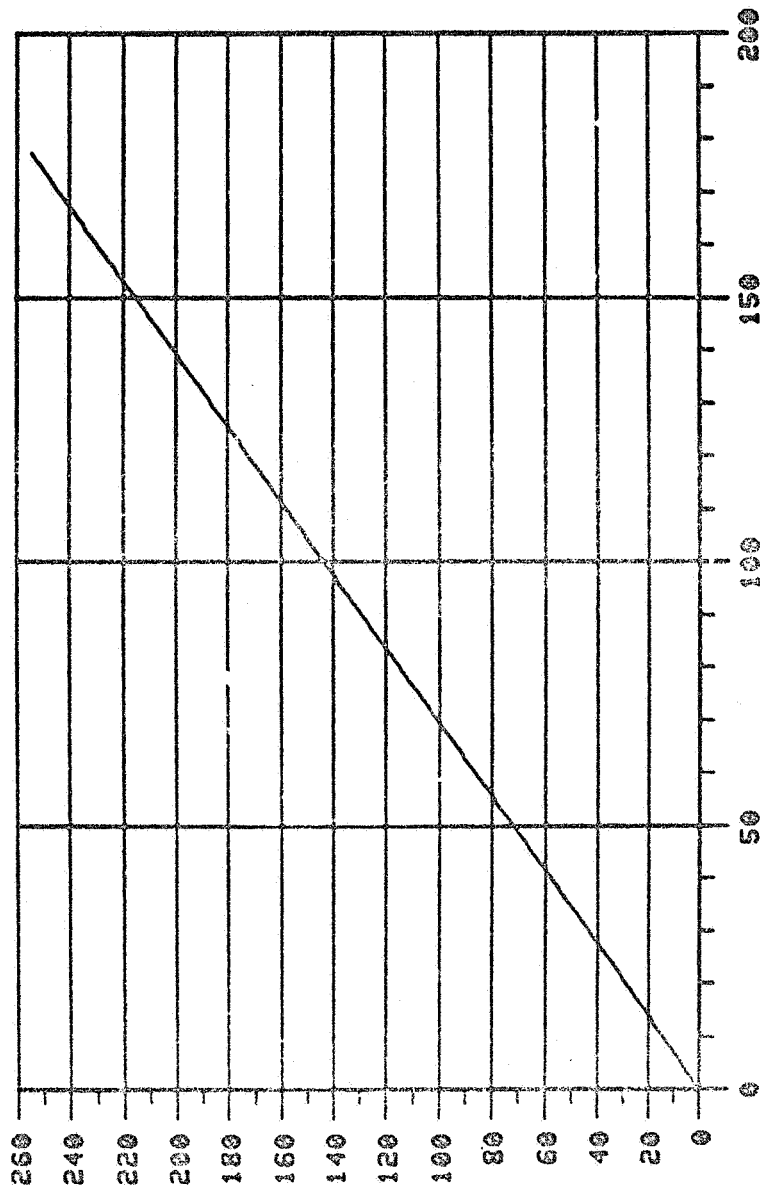
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COUNTS VS ENGINEERING UNITS FOR TRAFFT



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COUNTS VS ENGINEERING UNITS FOR TDBHTRI

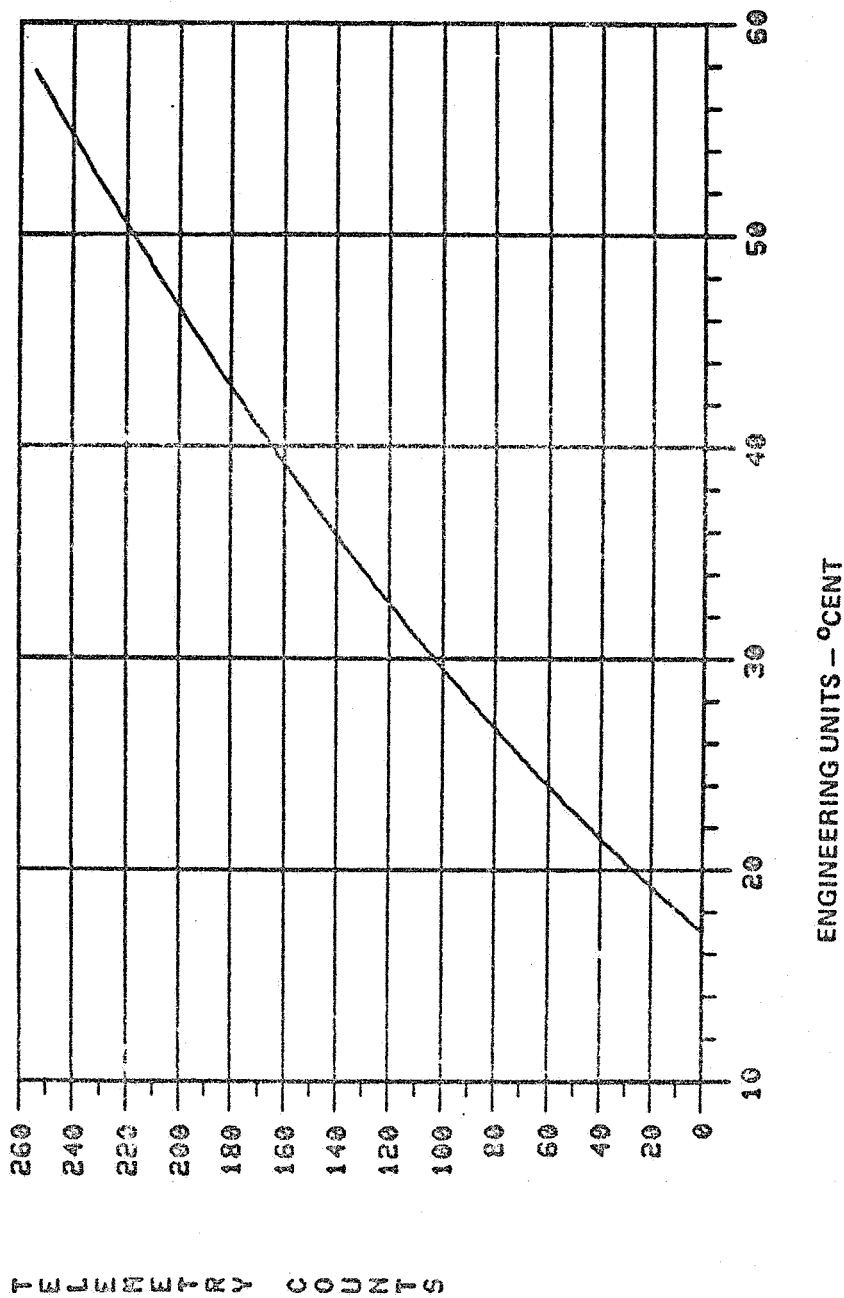


TELEMETRY COUNTS

ENGINEERING UNITS - MAMPS

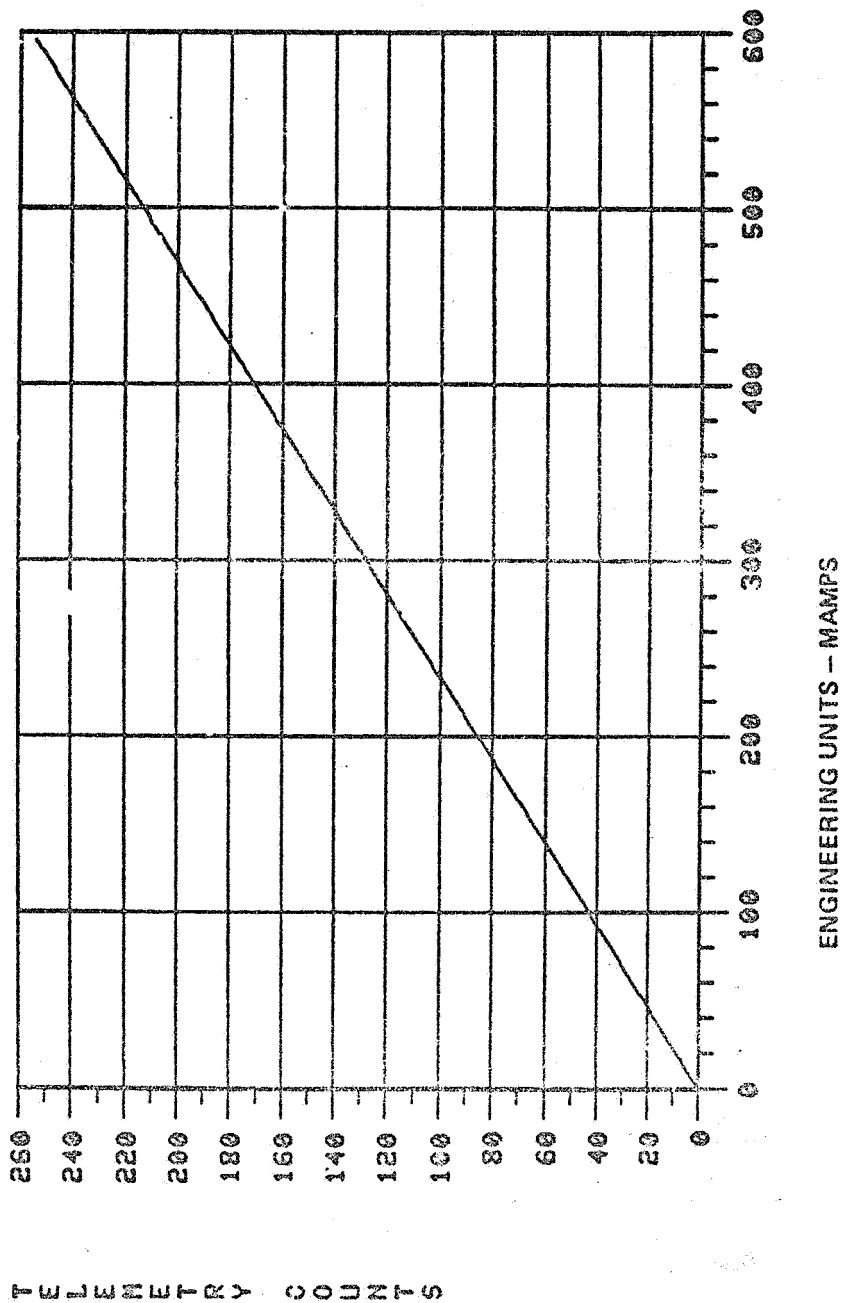
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COUNTS US ENGINEERING UNITS FOR TDDT



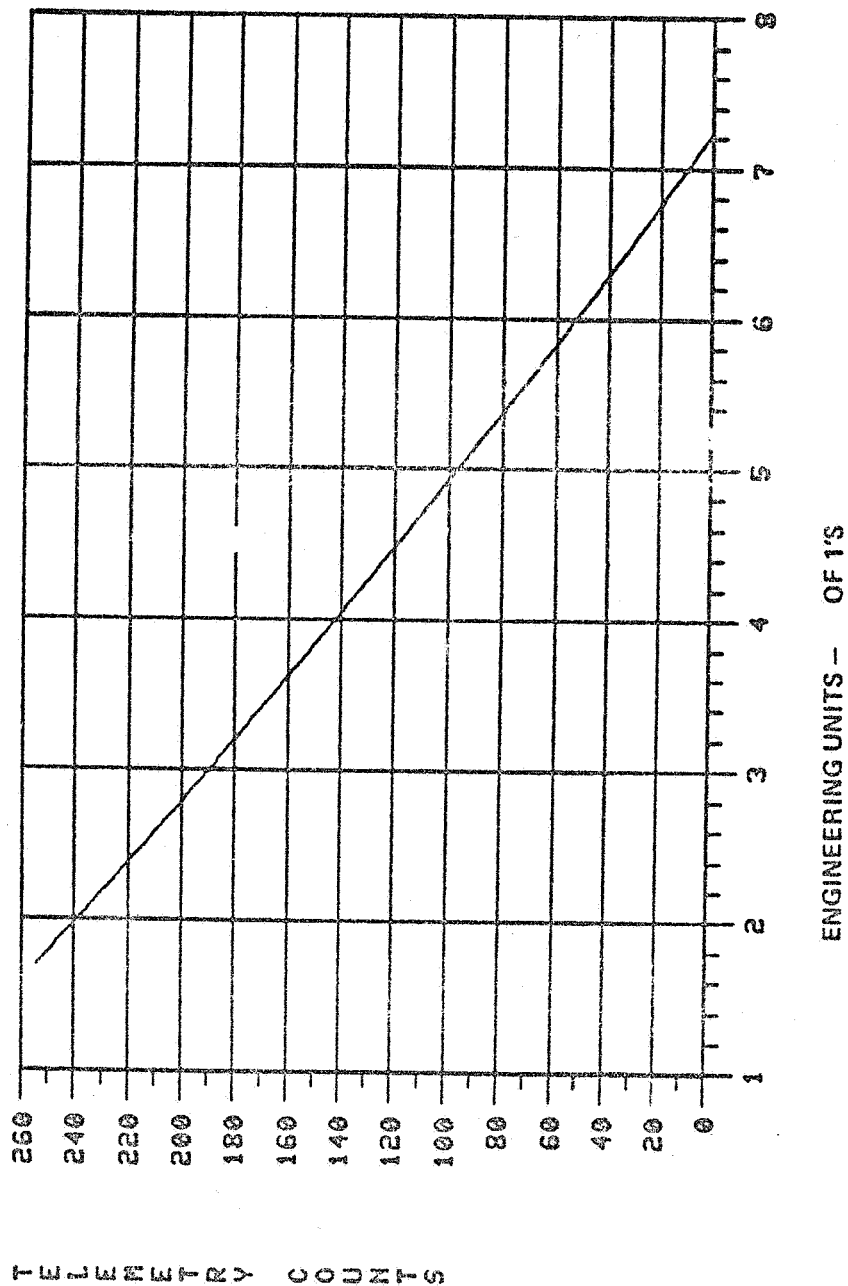
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COUNTS US ENGINEERING UNITS FOR TBFHTRI



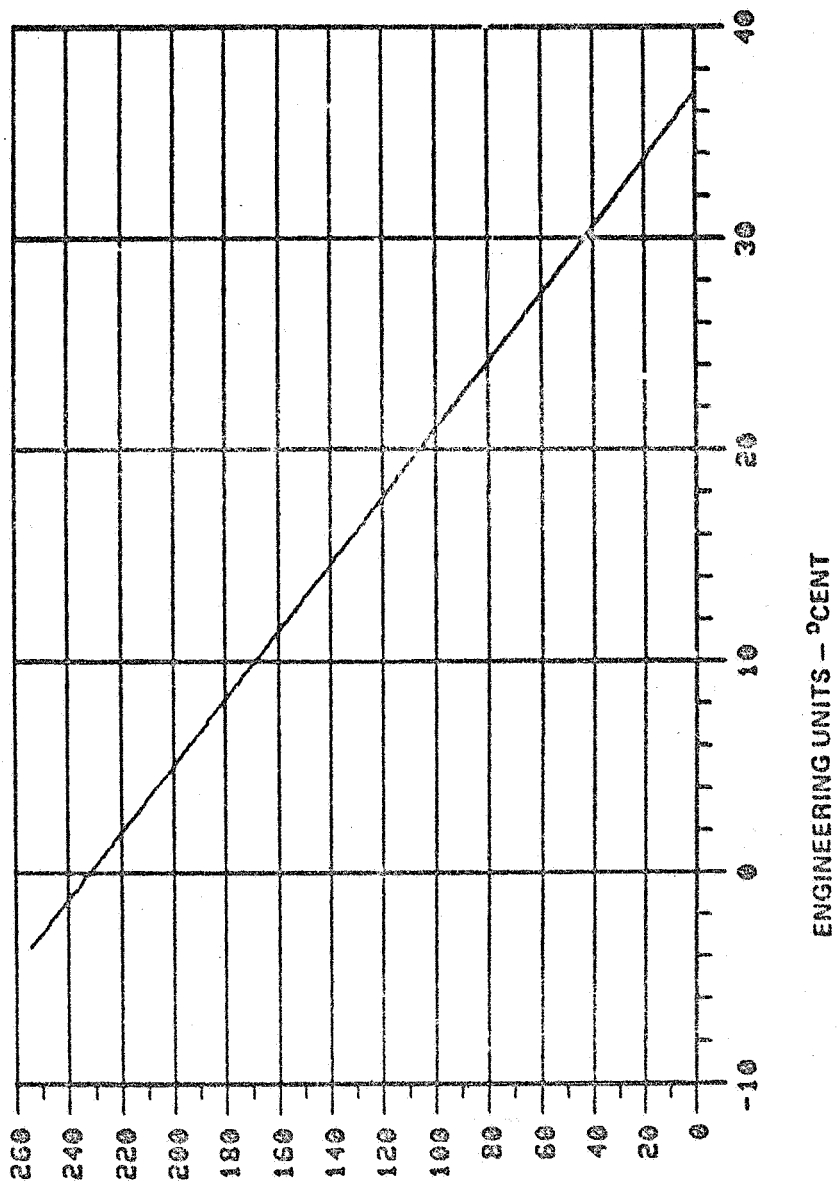
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COUNTS VS ENGINEERING UNITS FOR TBIDEN



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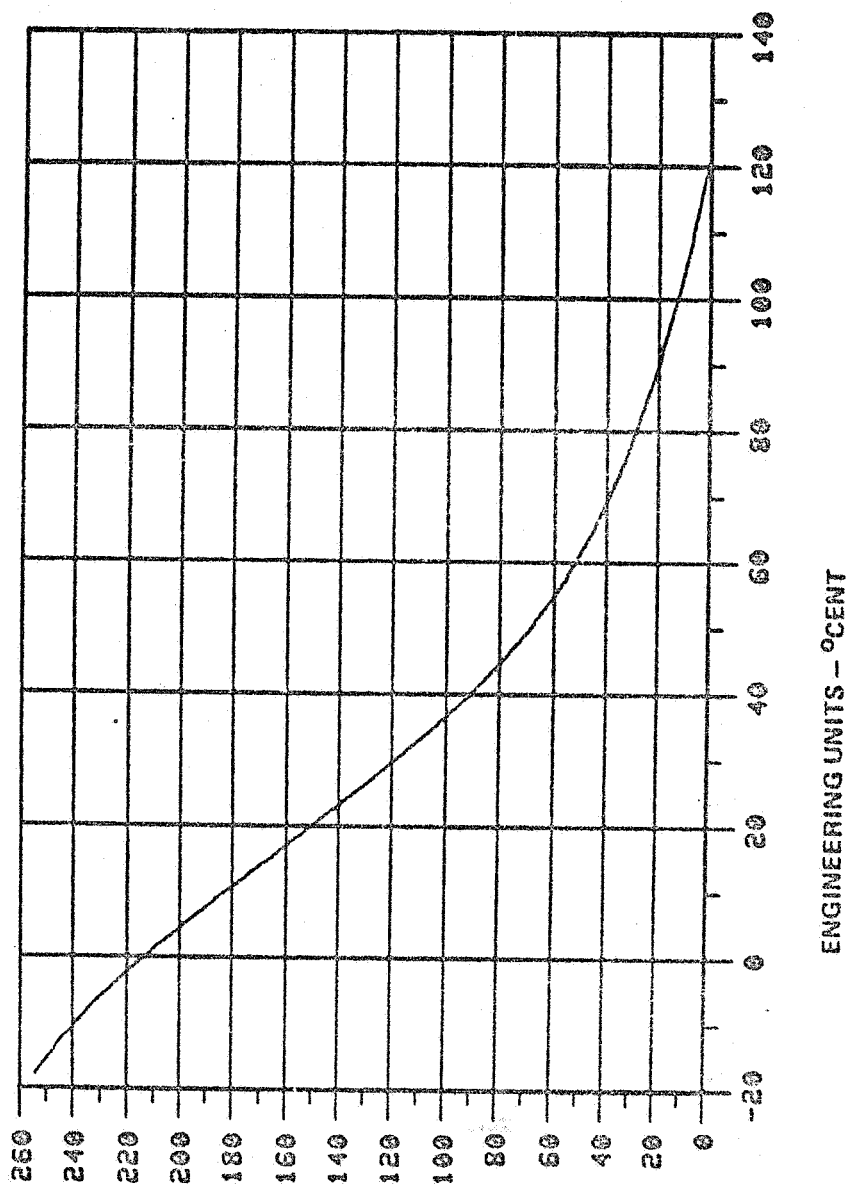
COUNTS VS ENGINEERING UNITS FOR TBUST



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR TCALSHT

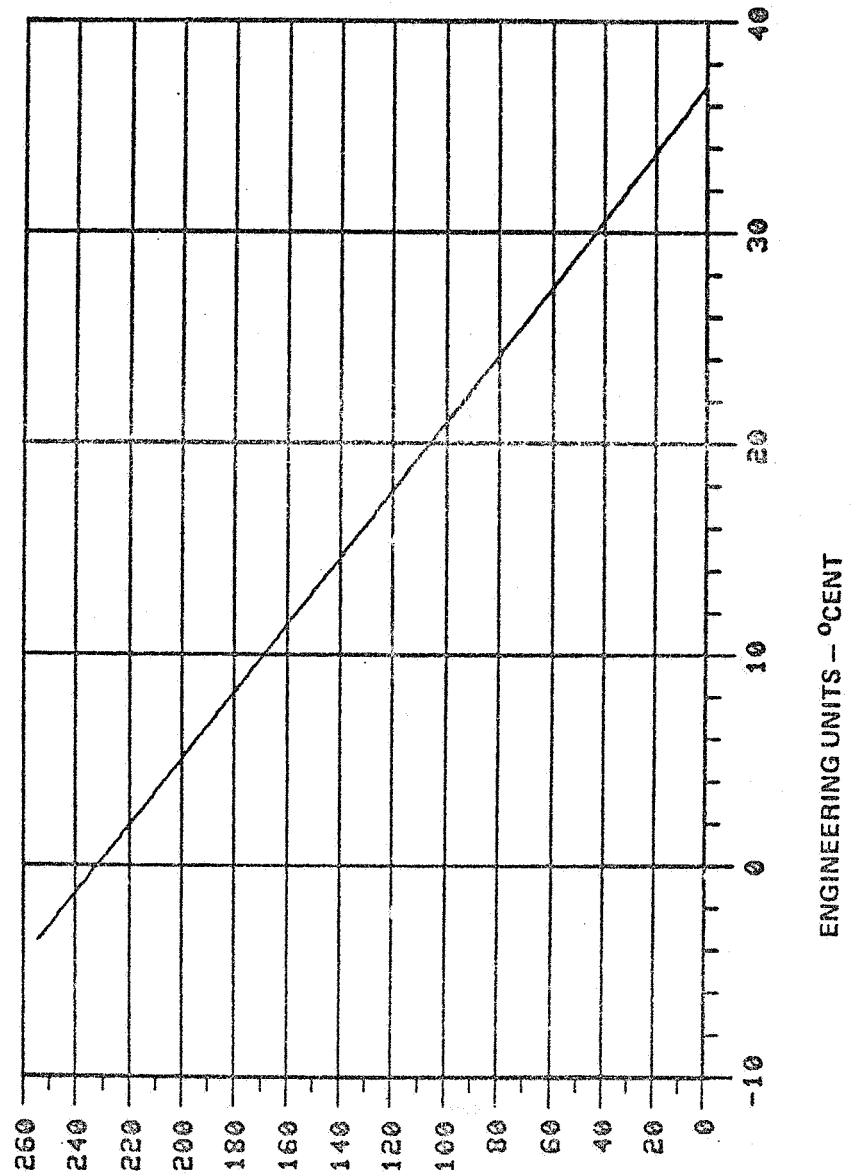


TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR TCA1ST

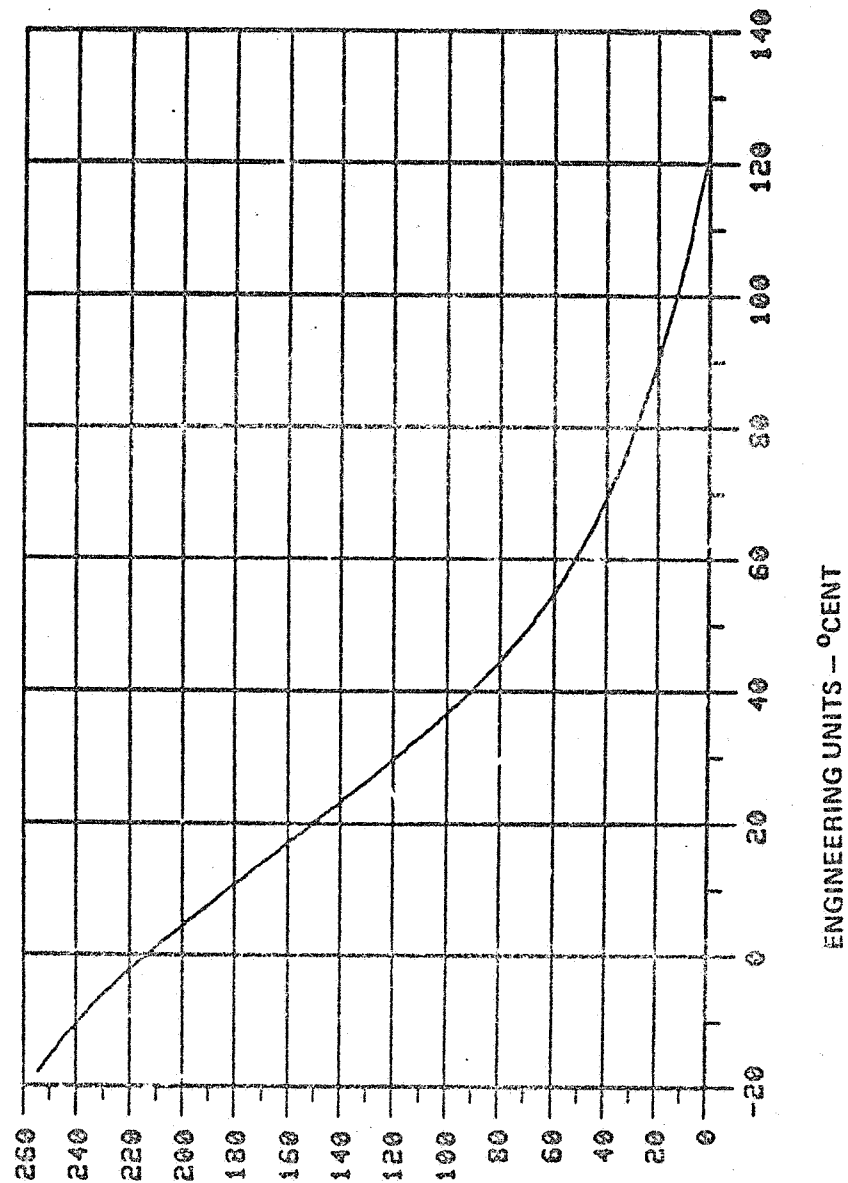


TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR TCAST

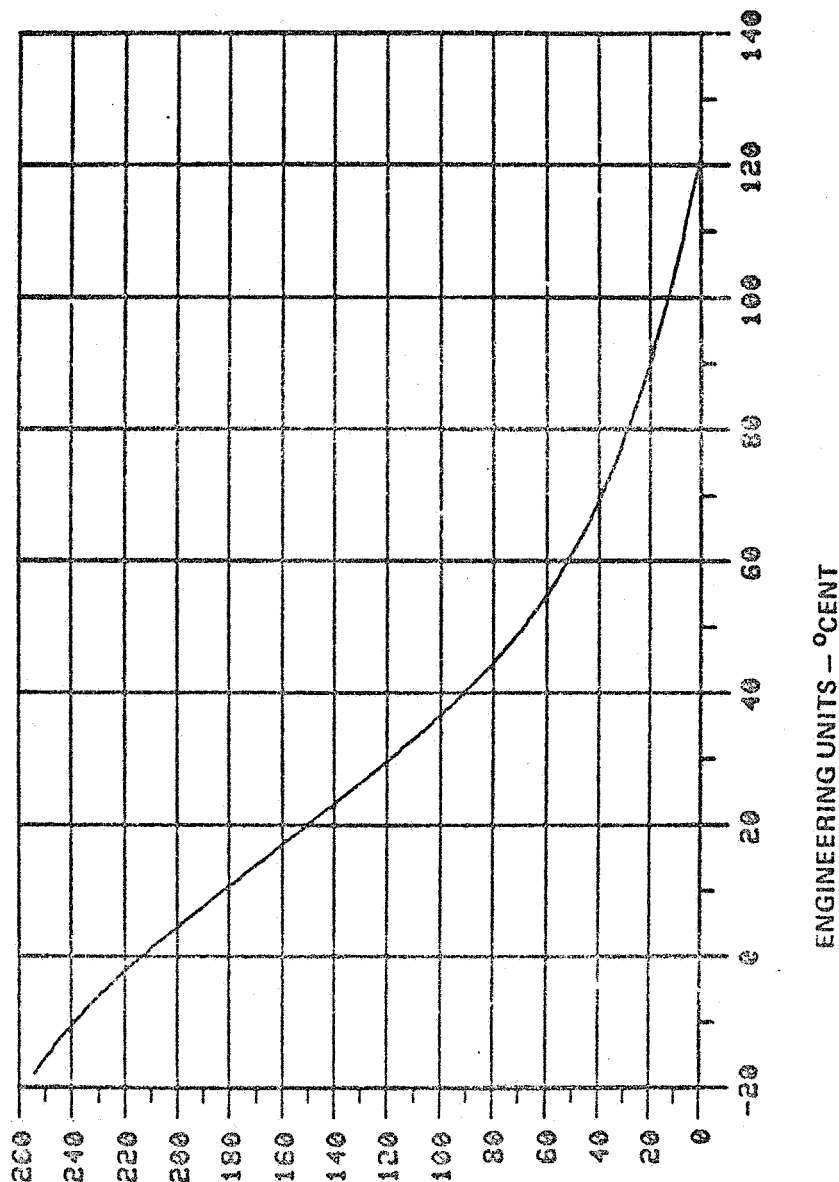


TELEMETRY COUNTS

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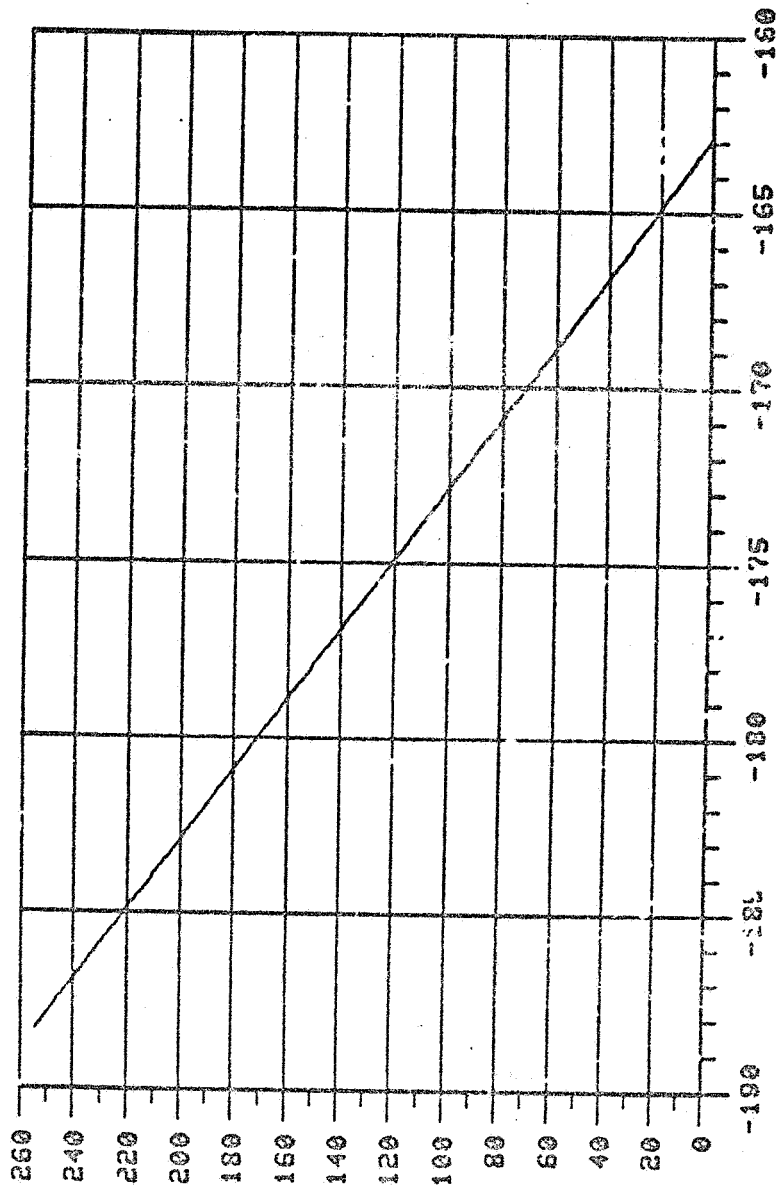


TCDT COUNTS

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COUNTS US ENGINEERING UNITS FOR TCFPACT

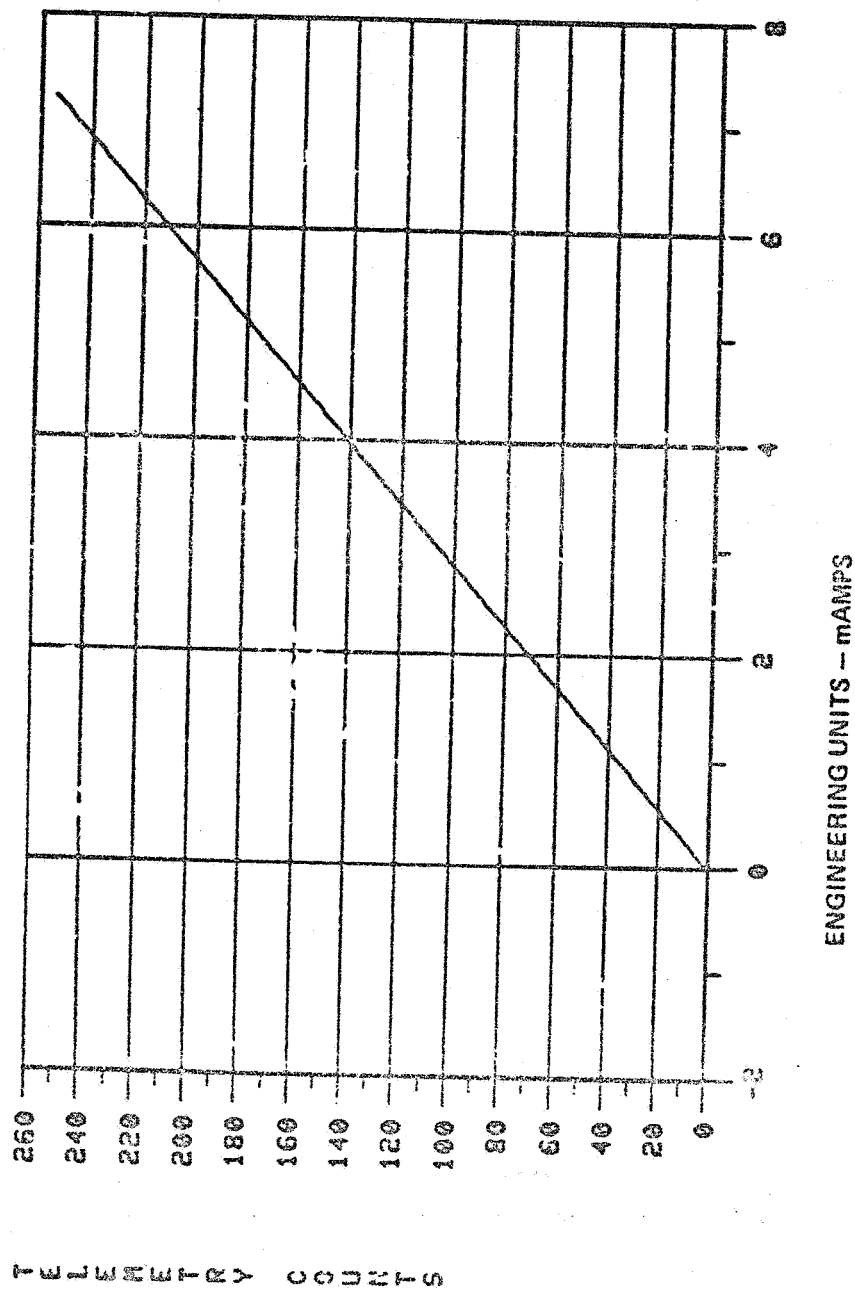


ENGINEERING UNITS - °K

TELEMETRY COUNTS

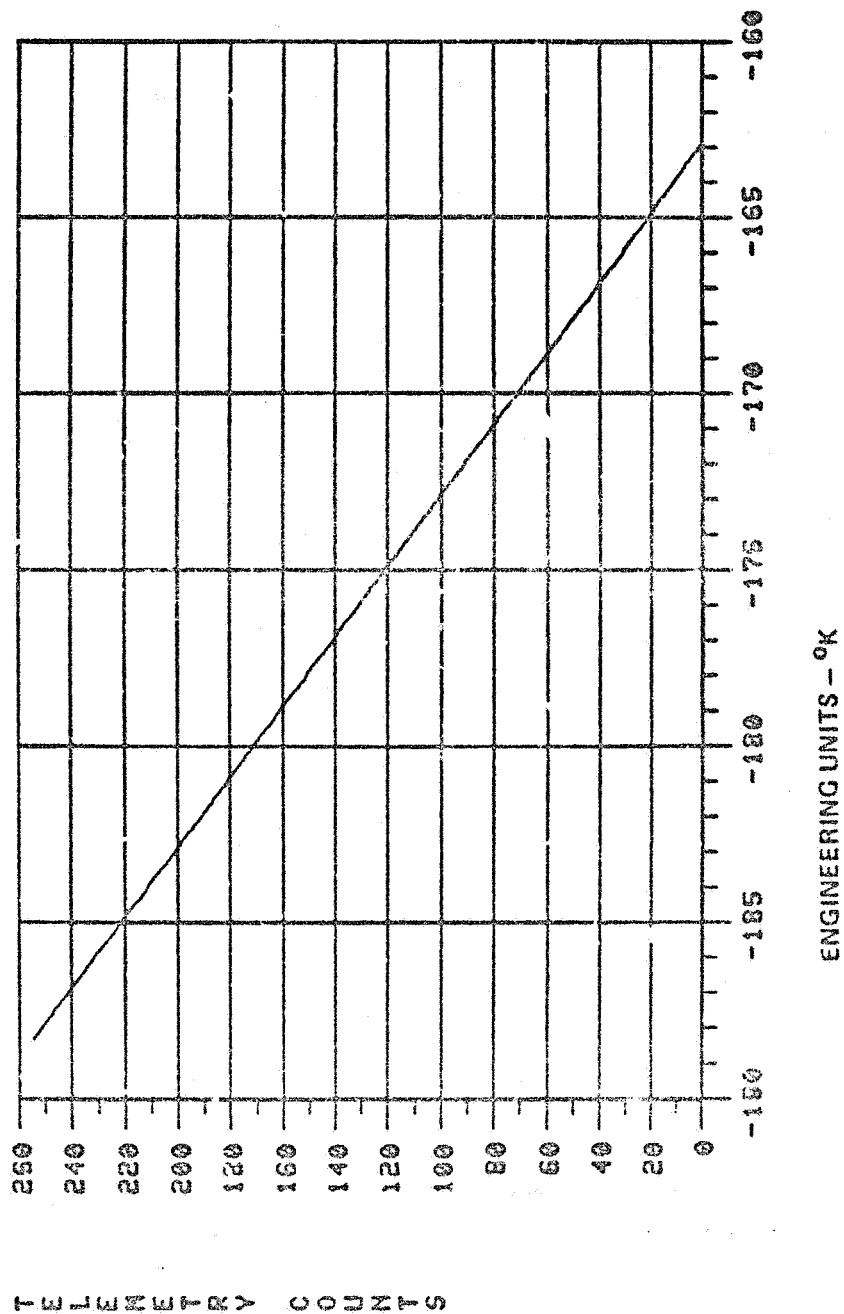
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COUNTS VS ENGINEERING UNITS FOR TCFPAH1



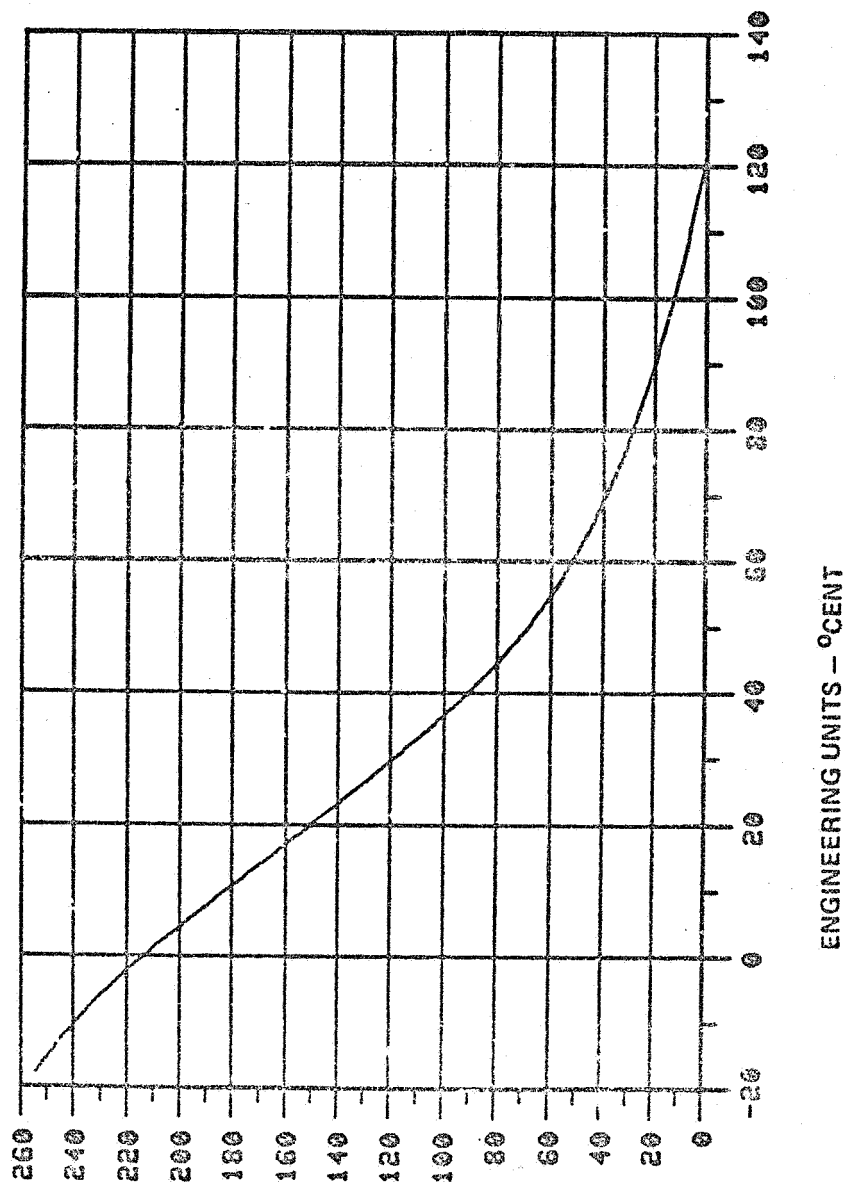
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COUNTS VS ENGINEERING UNITS FOR TCFPANT



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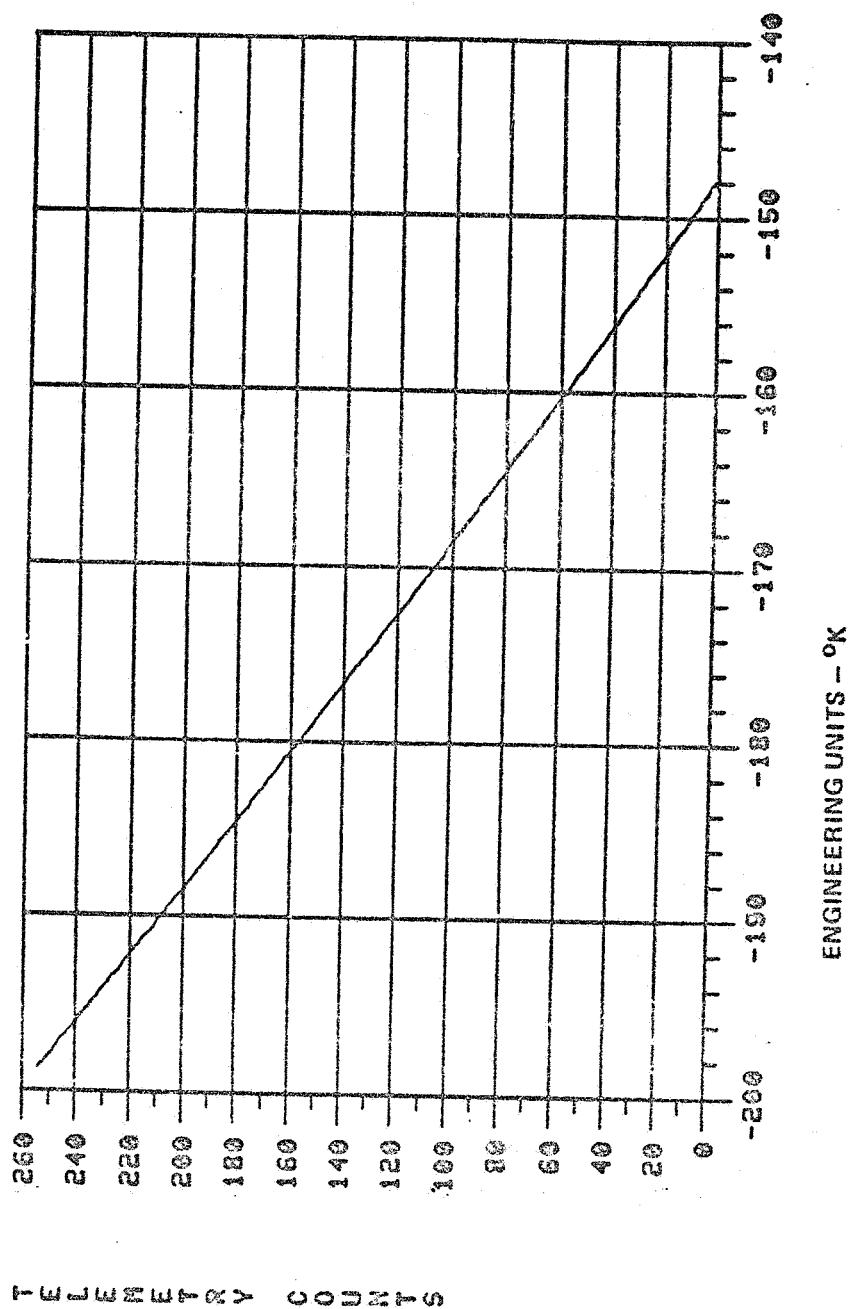
COUNTS VS ENGINEERING UNITS FOR TCPAT



TELEMETRY COUNTS

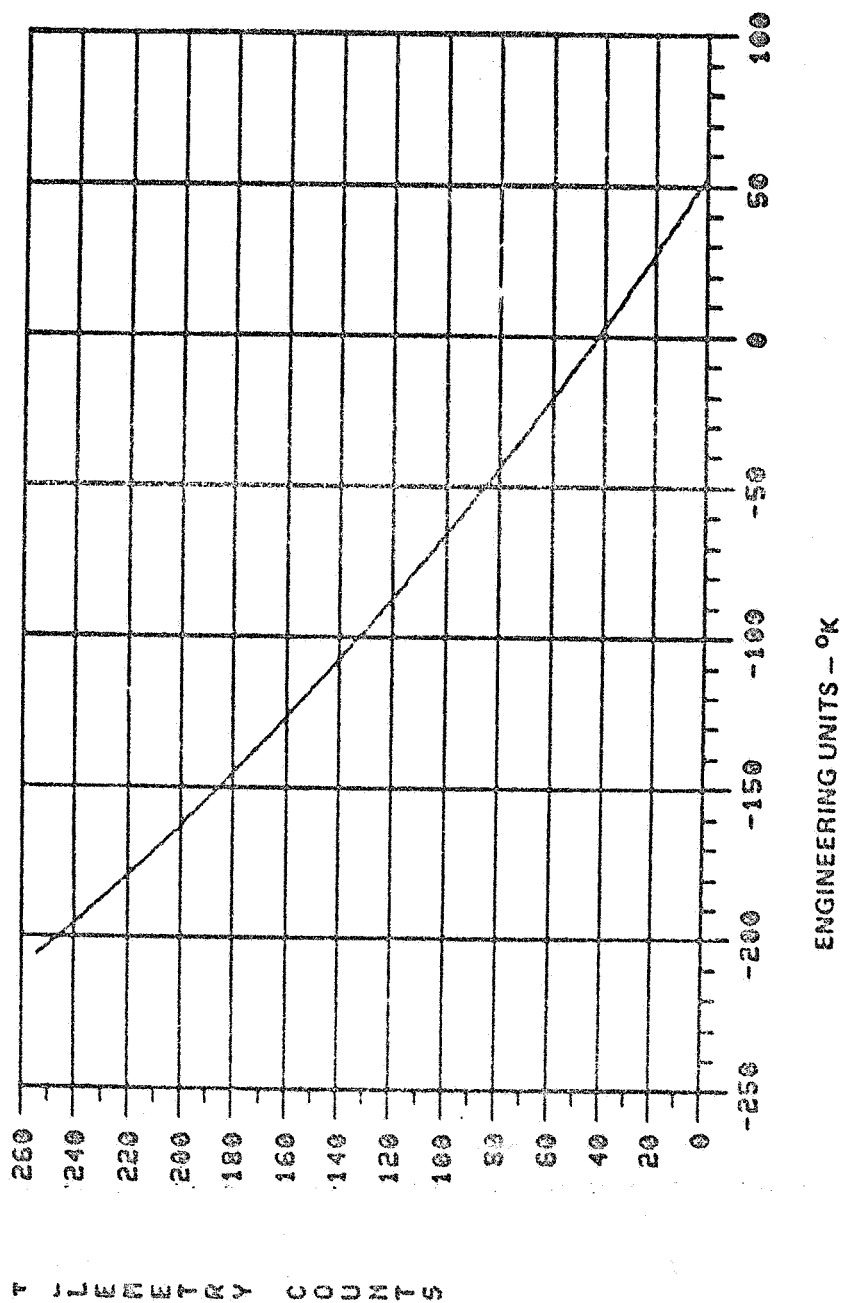
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COUNTS VS ENGINEERING UNITS FOR TCSCT



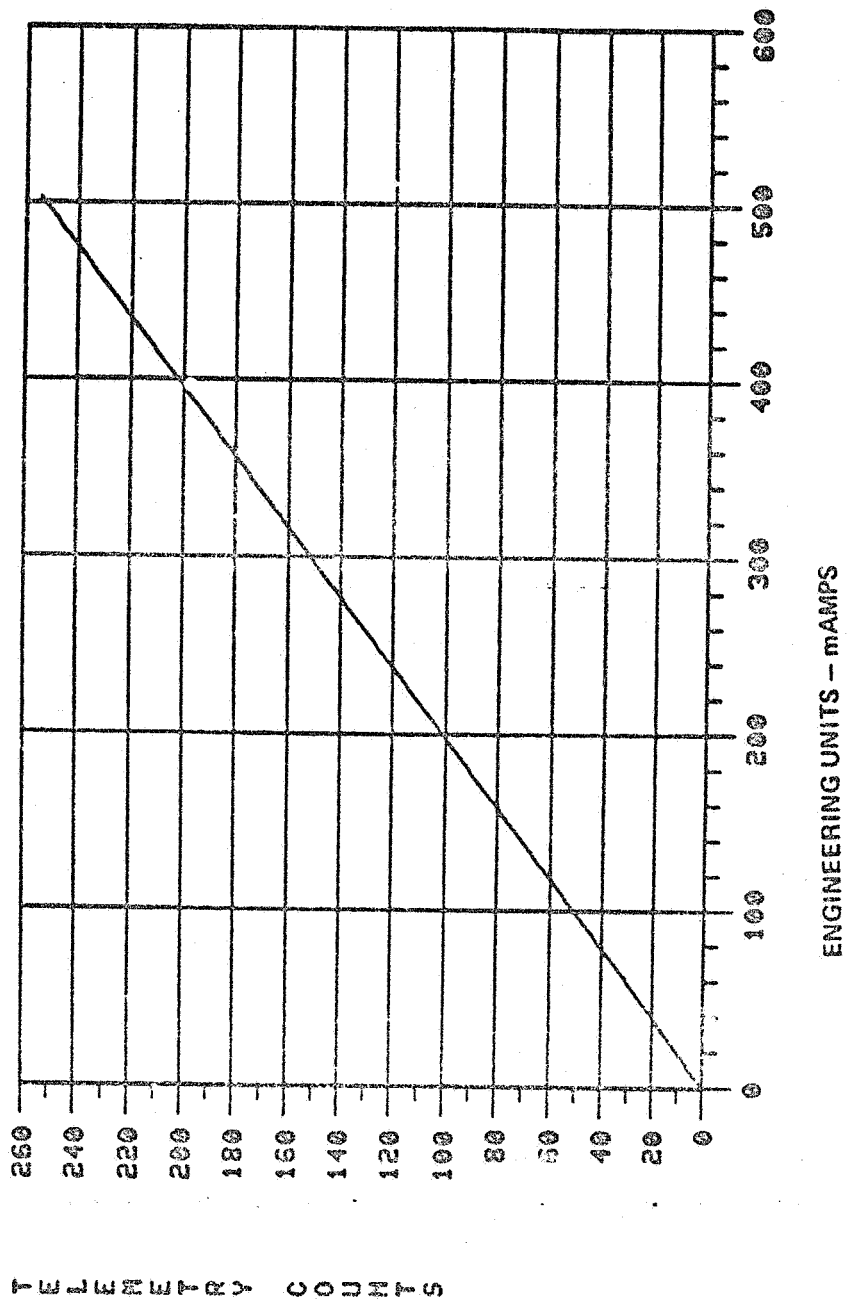
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COUNTS VS ENGINEERING UNITS FOR TCSHT



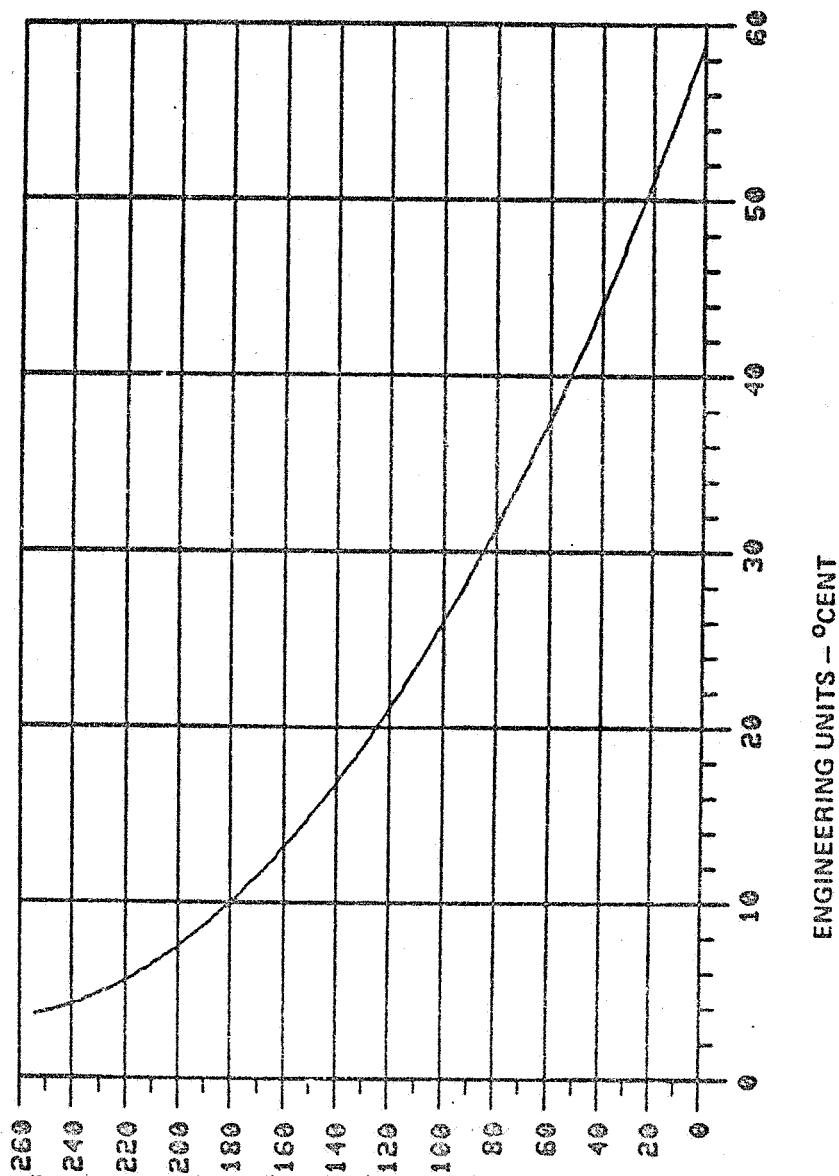
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COUNTS VS ENGINEERING UNITS FOR TCSHTRI



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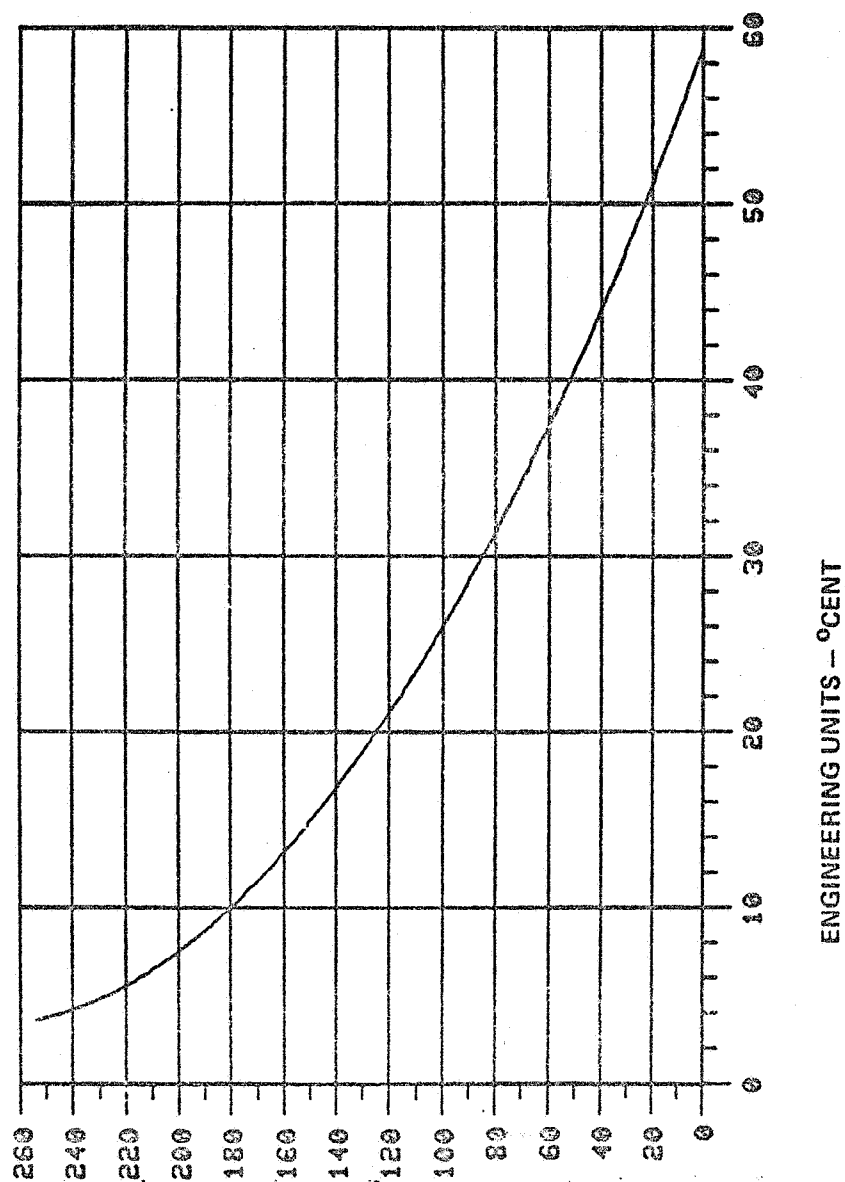
COUNTS US ENGINEERING UNITS FOR TDUNSH



TELEMETRY COUNTS

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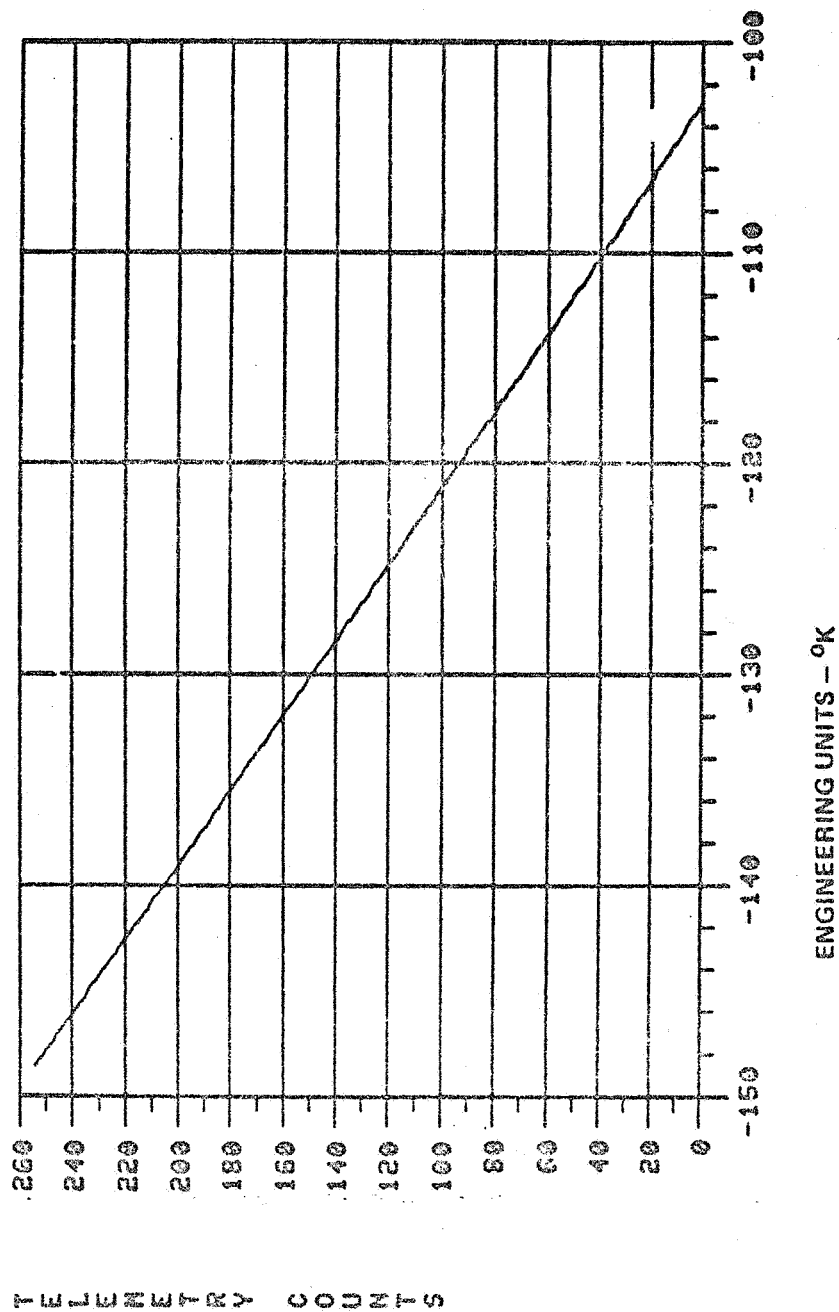
COUNTS VS ENGINEERING UNITS FOR TFUDSNT



TELEMETRY COUNTS

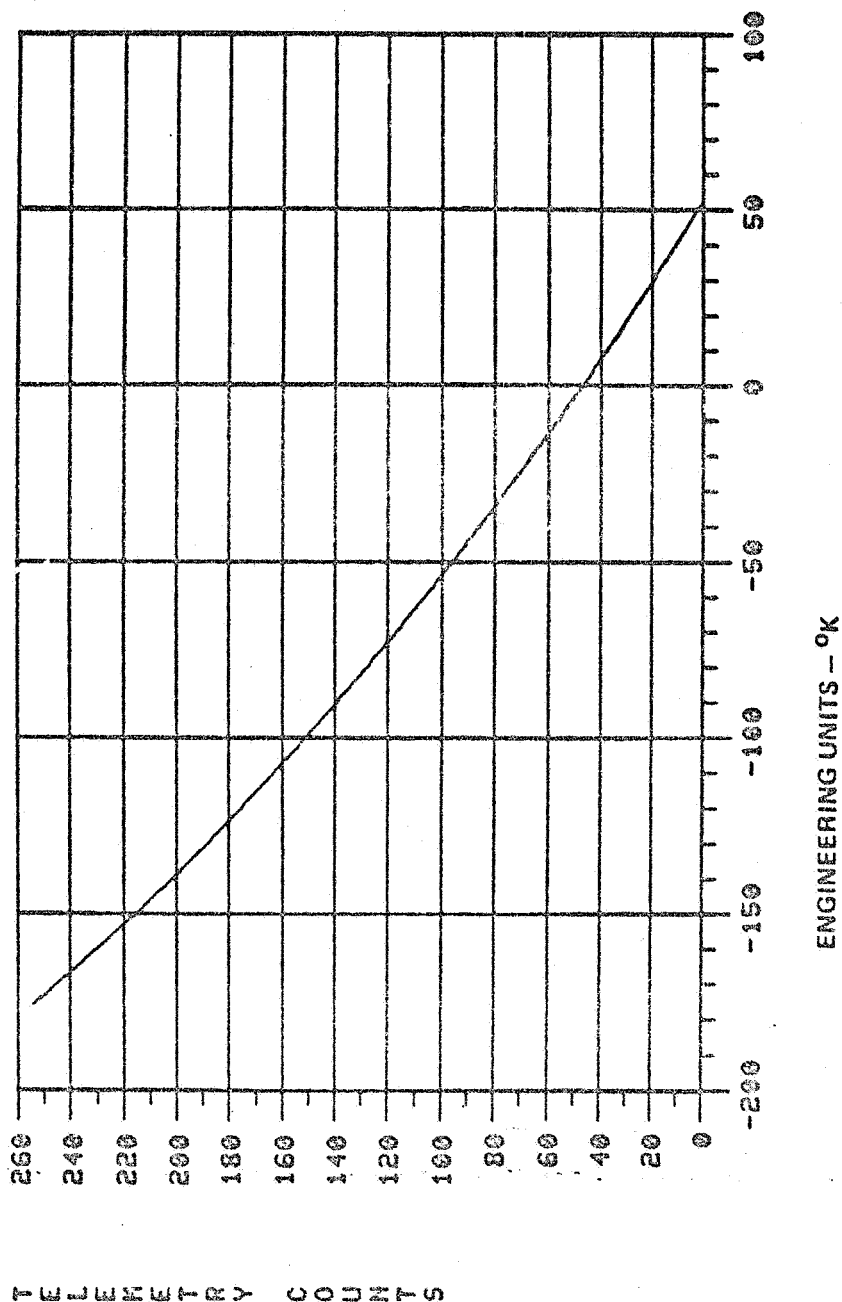
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COUNTS VS ENGINEERING UNITS FOR TISCT



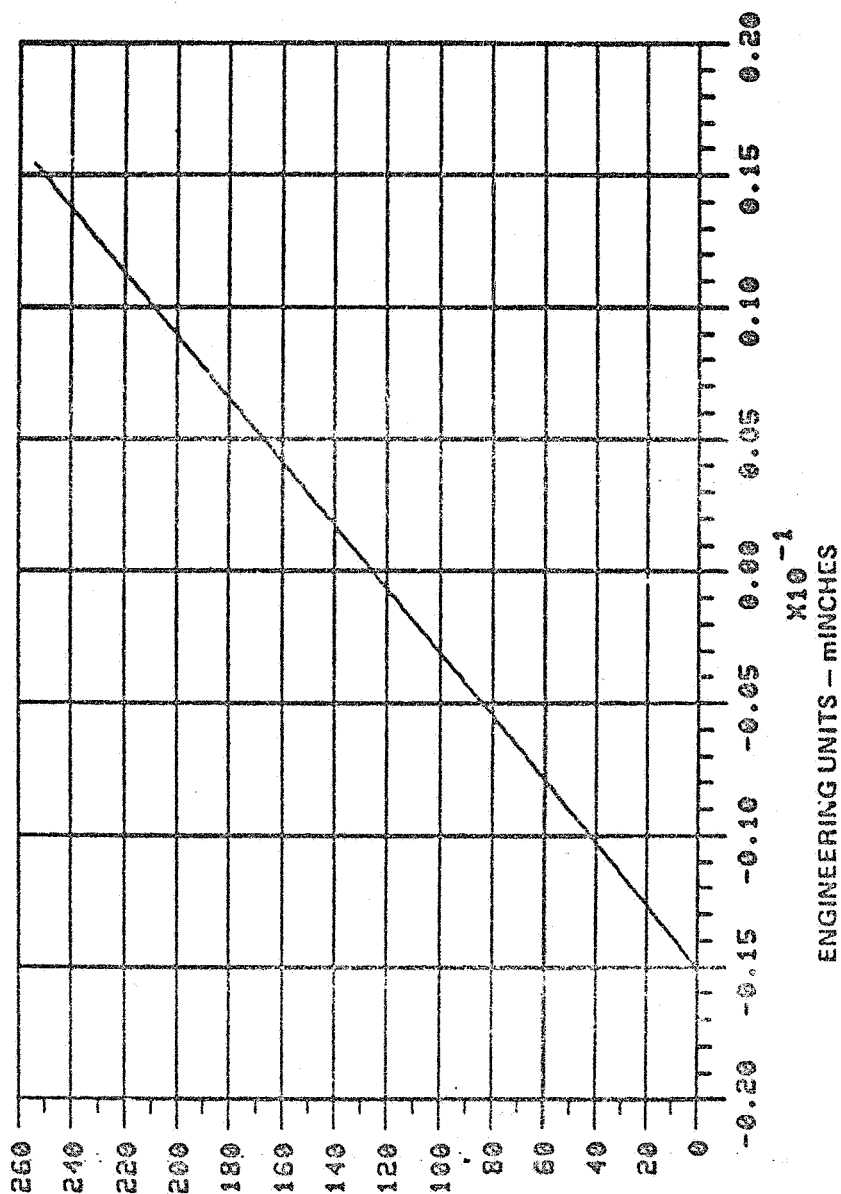
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COUNTS VS ENGINEERING UNITS FOR TISHT



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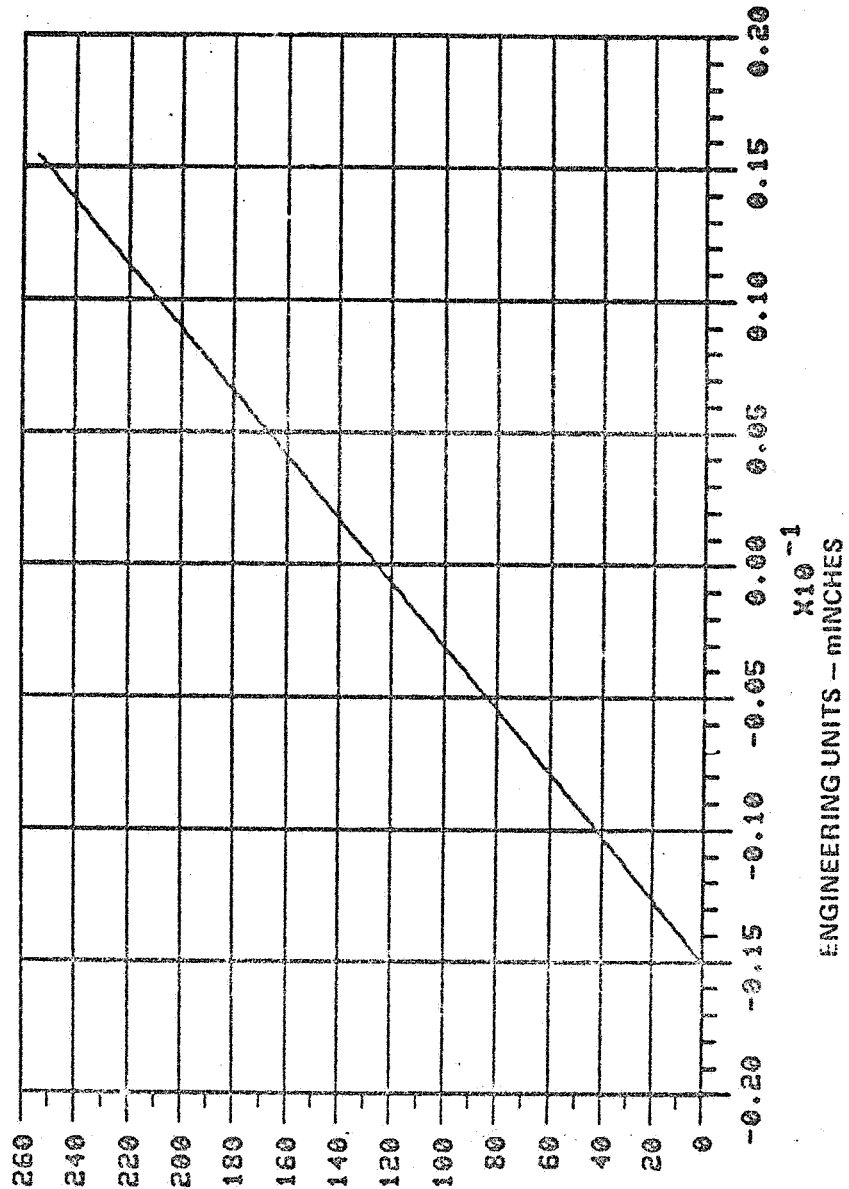
COUNTS VS ENGINEERING UNITS FOR TIU1POS



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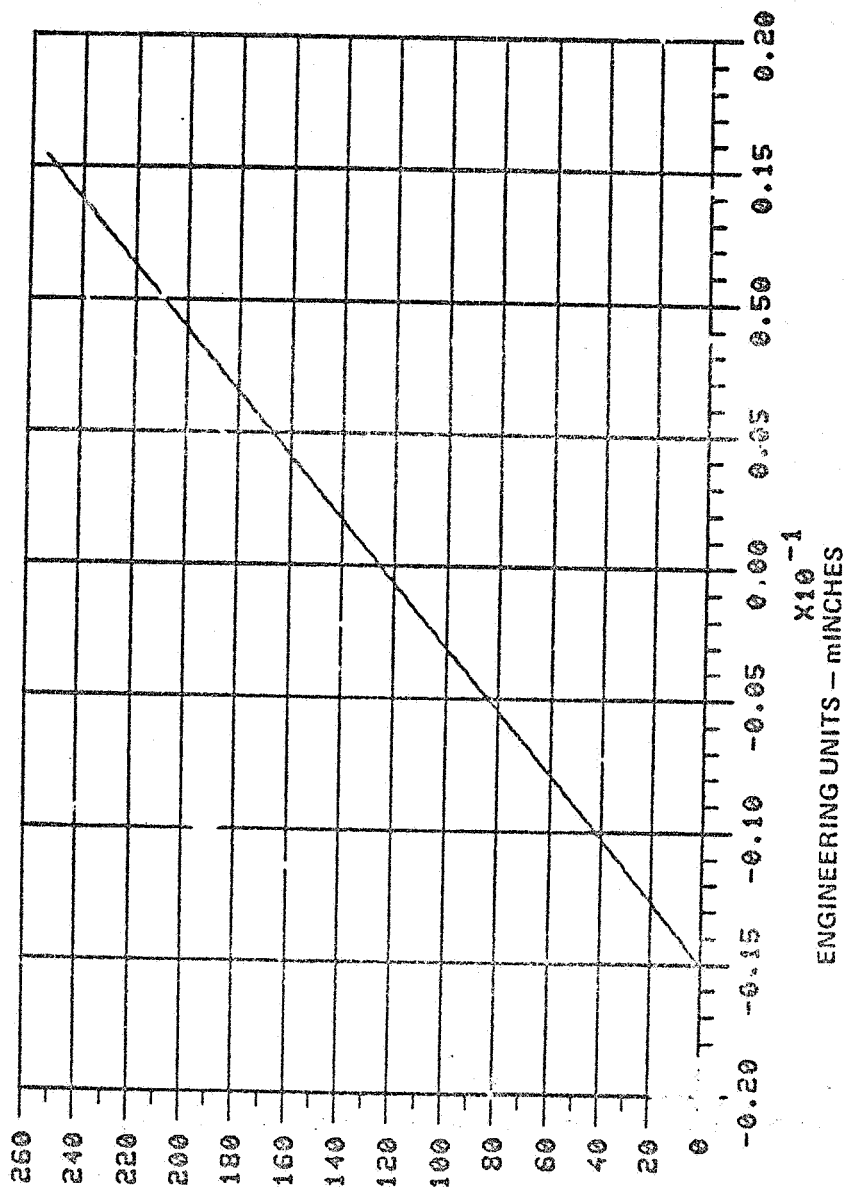
COUNTS VS ENGINEERING UNITS FOR TIUEPOS



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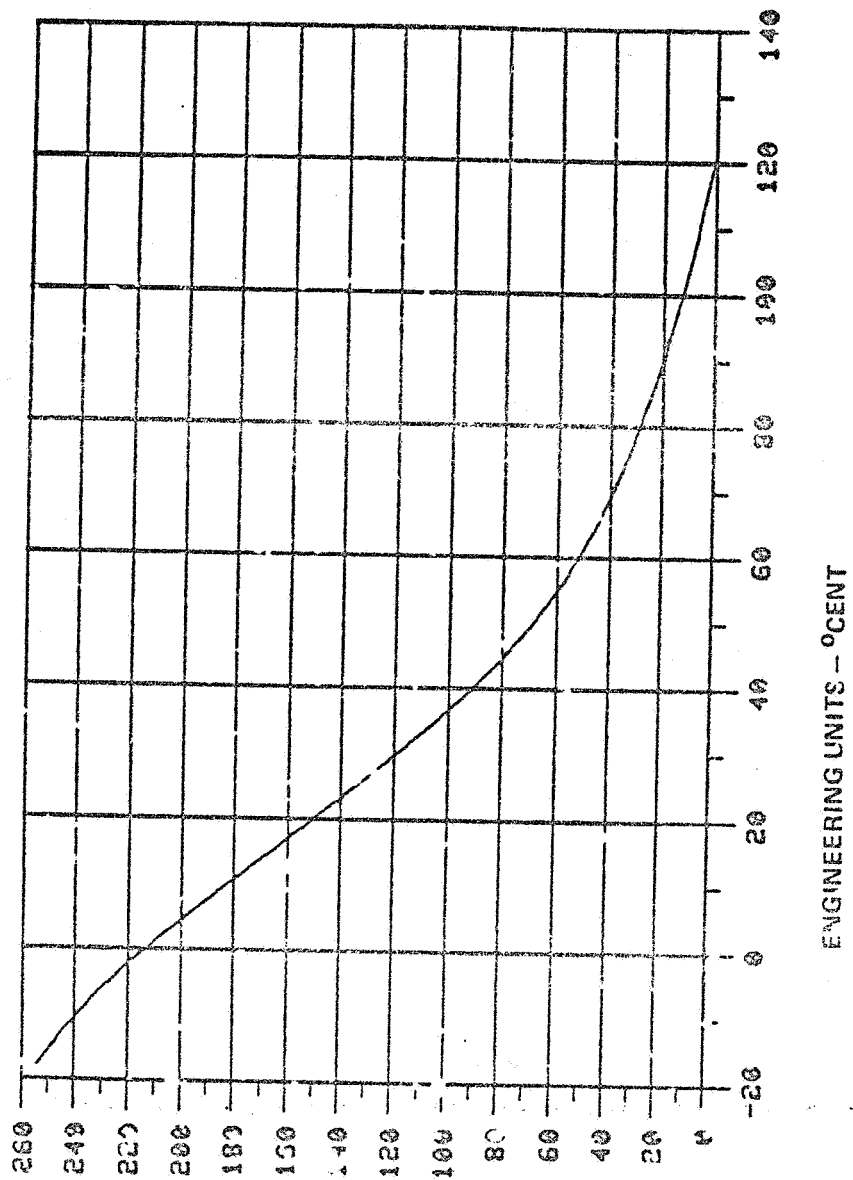
COUNTS VS ENGINEERING UNITS FOR TIU3POS



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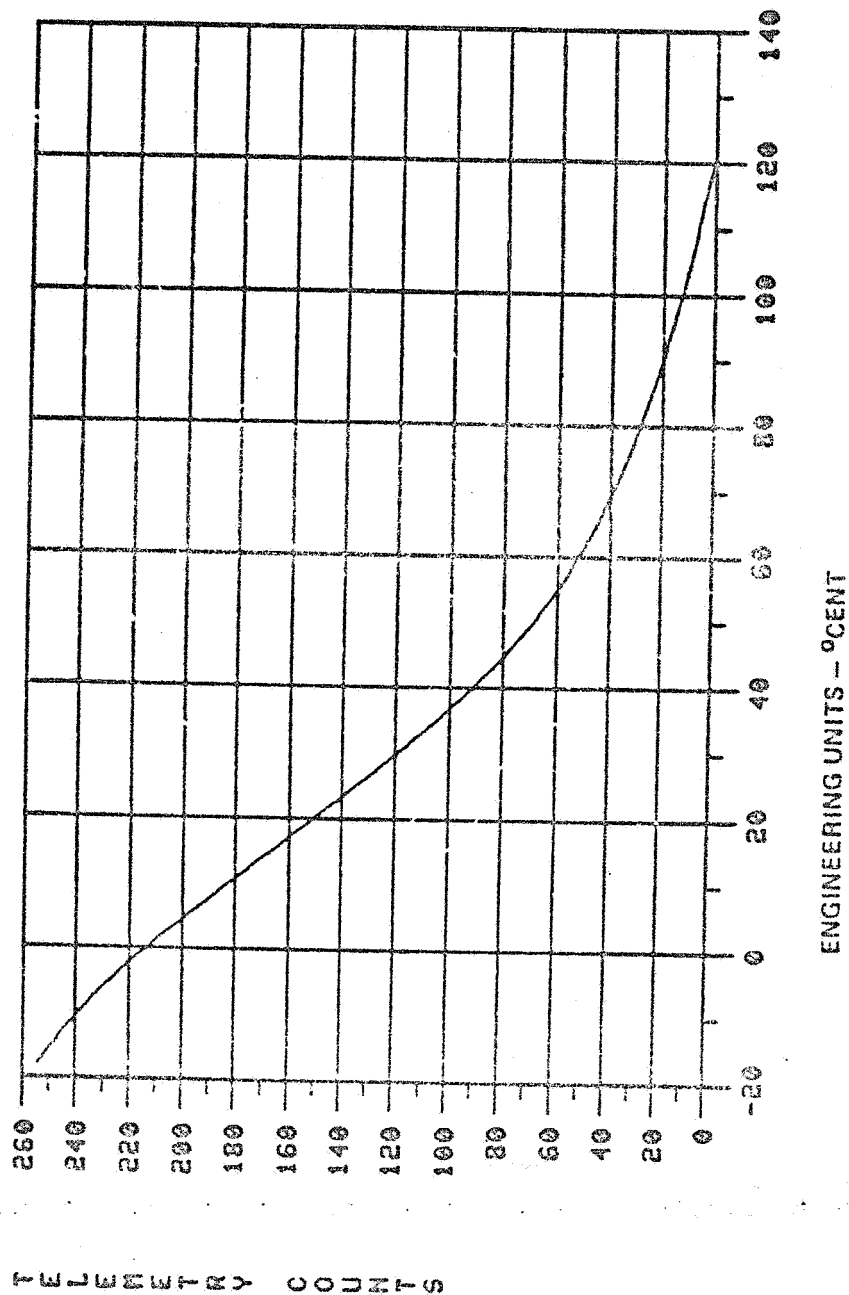
COUNTS US ENGINEERING UNITS FOR TLMPORT



TELEMETRY COUNTS

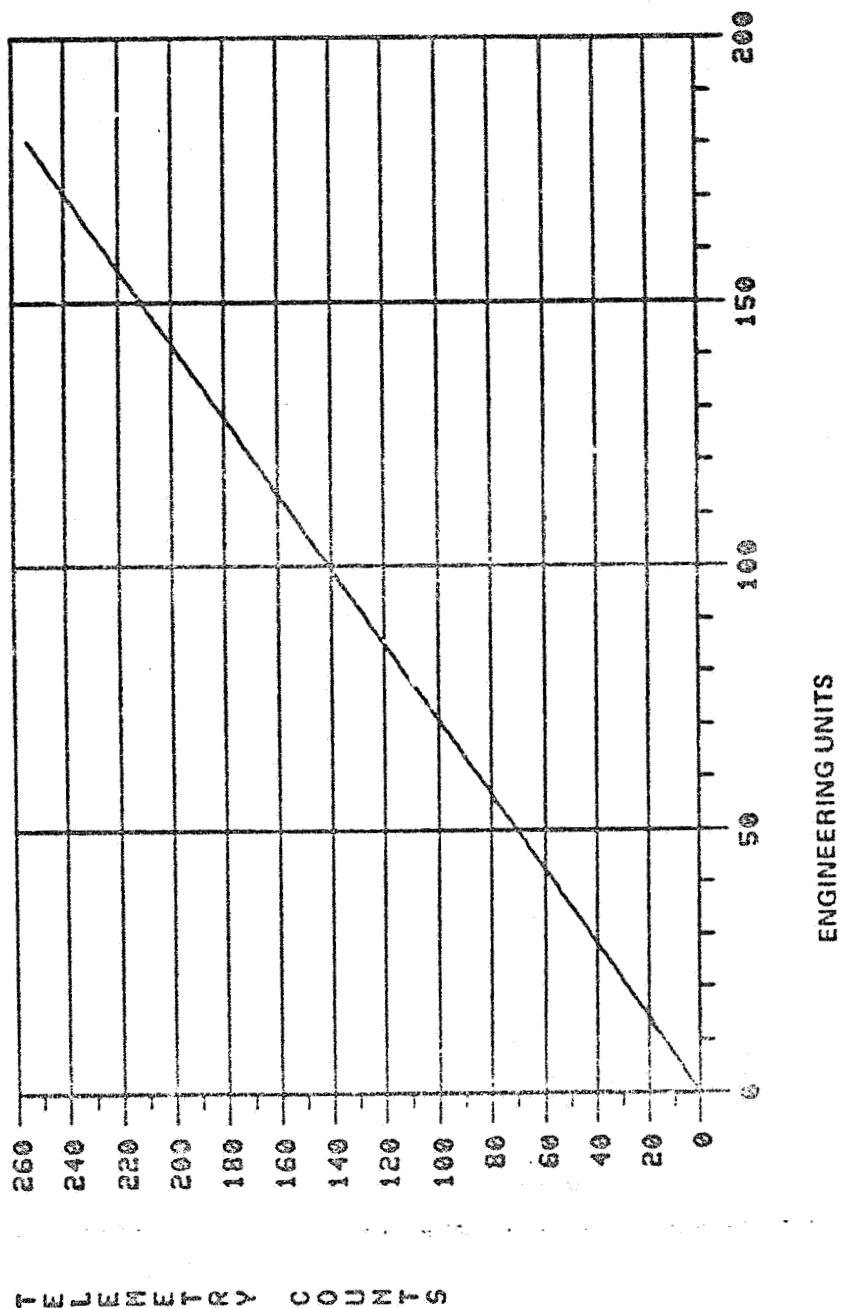
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COUNTS VS ENGINEERING UNITS FOR TLRPFT



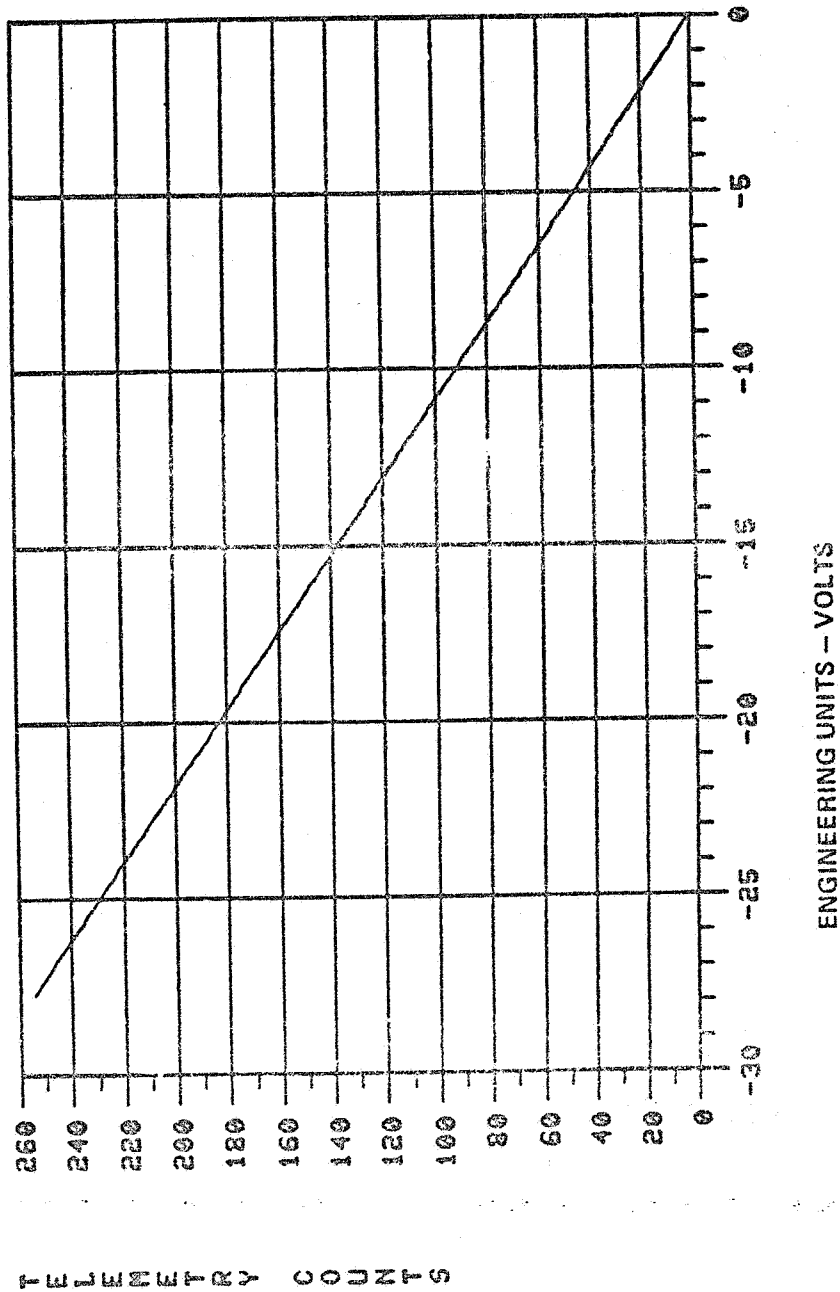
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COUNTS VS ENGINEERING UNITS FOR TLMPTA3



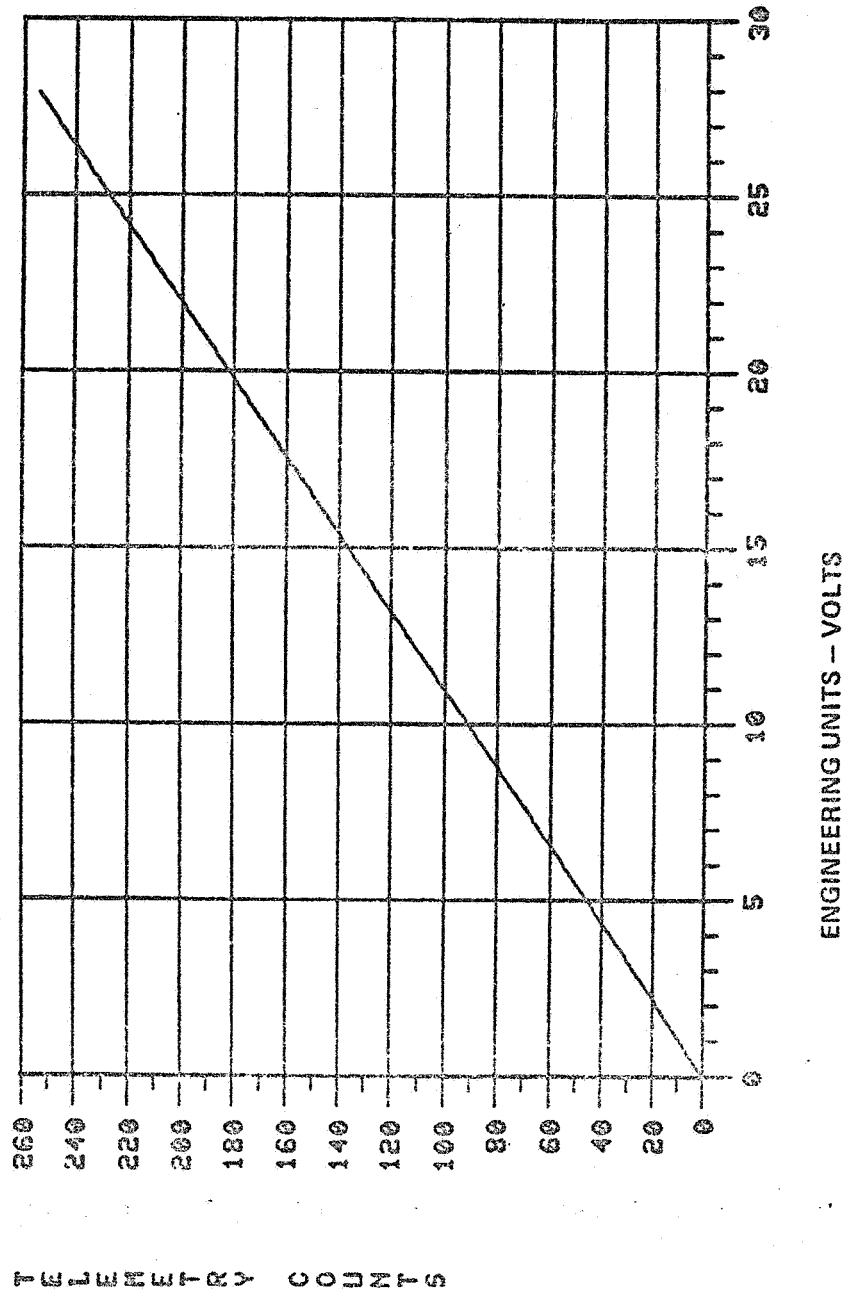
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COUNTS VS ENGINEERING UNITS FOR TH119UN



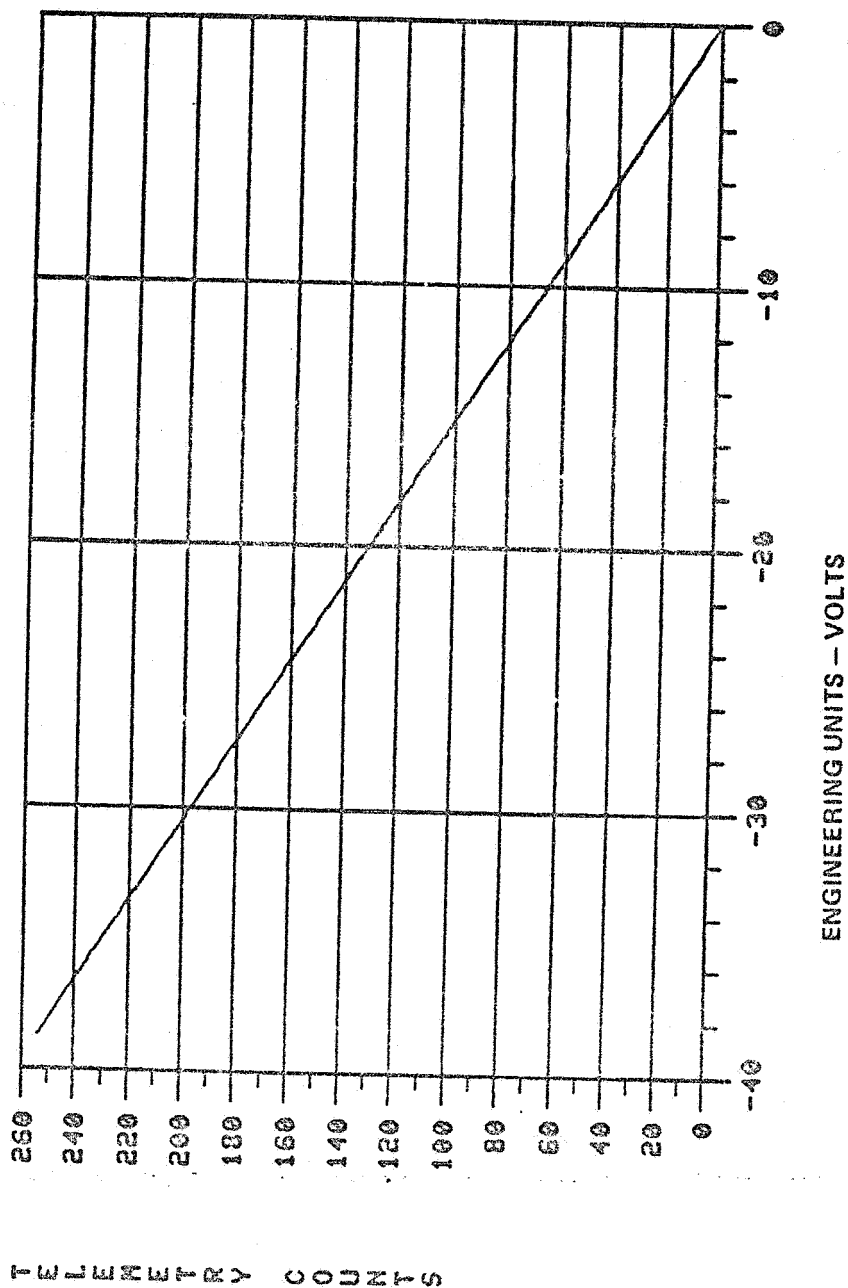
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COUNTS VS ENGINEERING UNITS FOR TH18VP



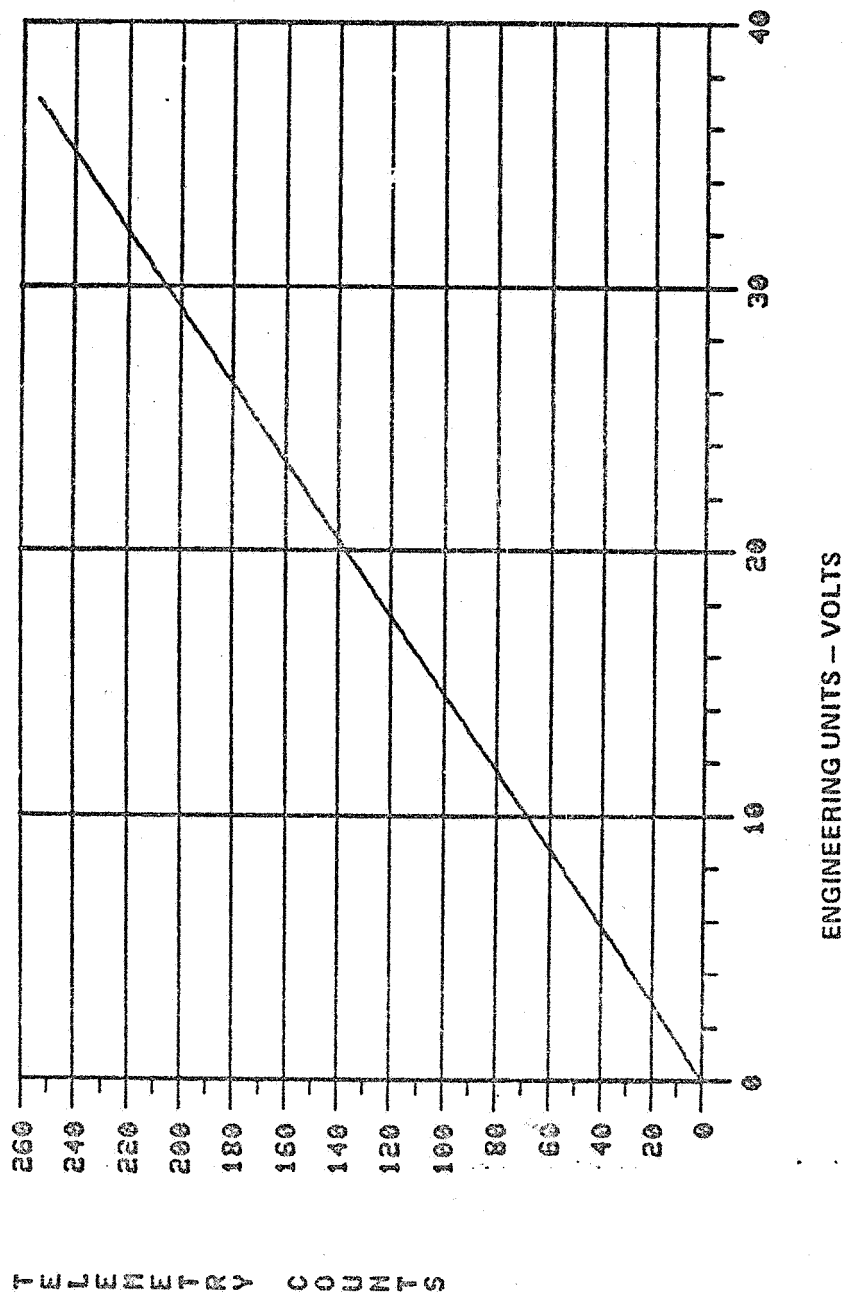
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COUNTS VS ENGINEERING UNITS FOR TM127UN



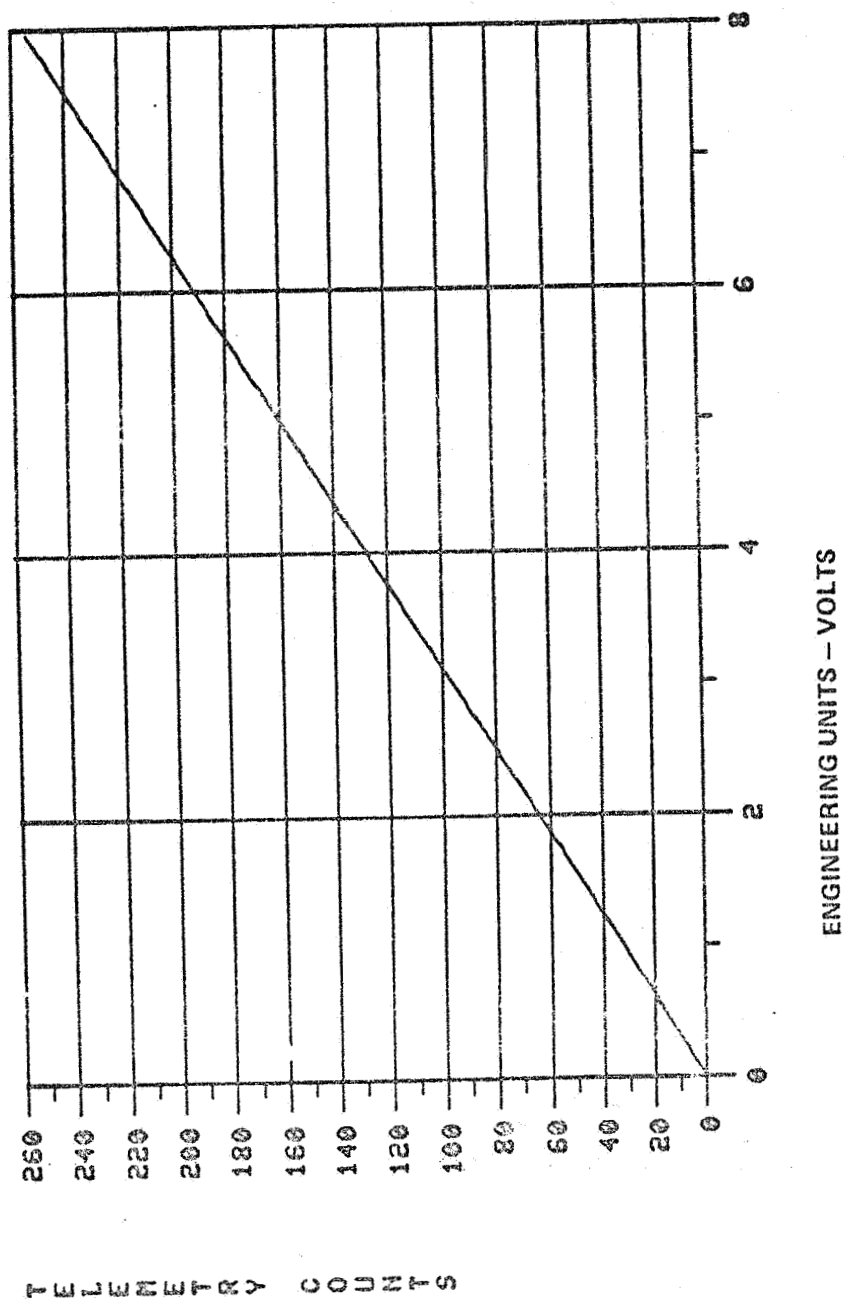
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COUNTS VS ENGINEERING UNITS FOR TH127UP



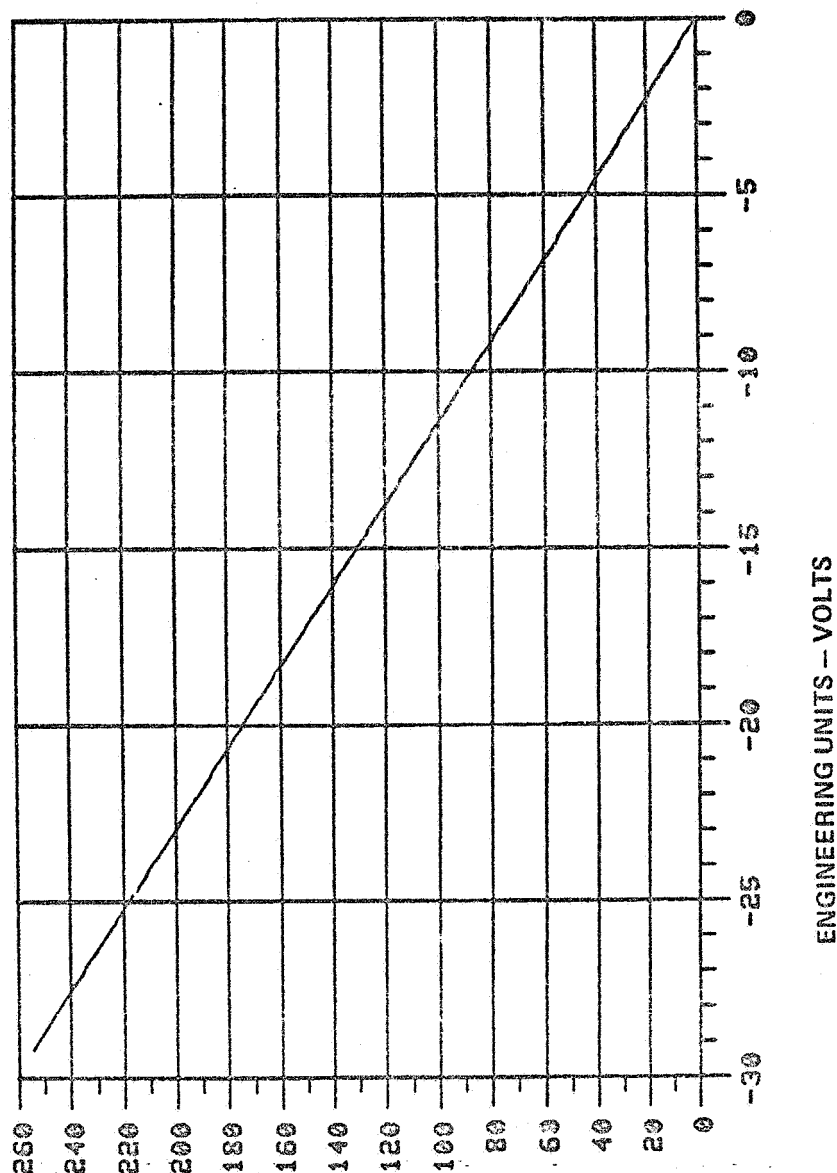
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COUNTS VS ENGINEERING UNITS FOR TM17U



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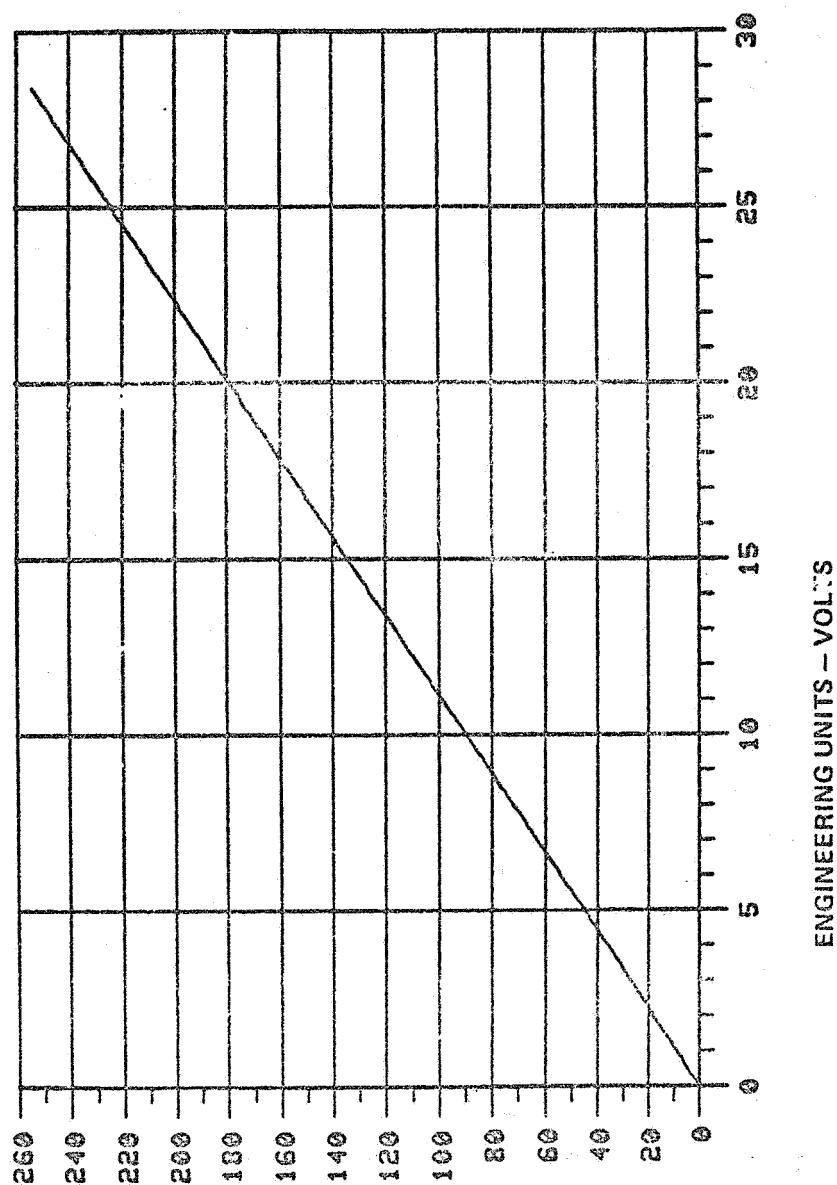
COUNTS VS ENGINEERING UNITS FOR TM19UN



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR TH19UP

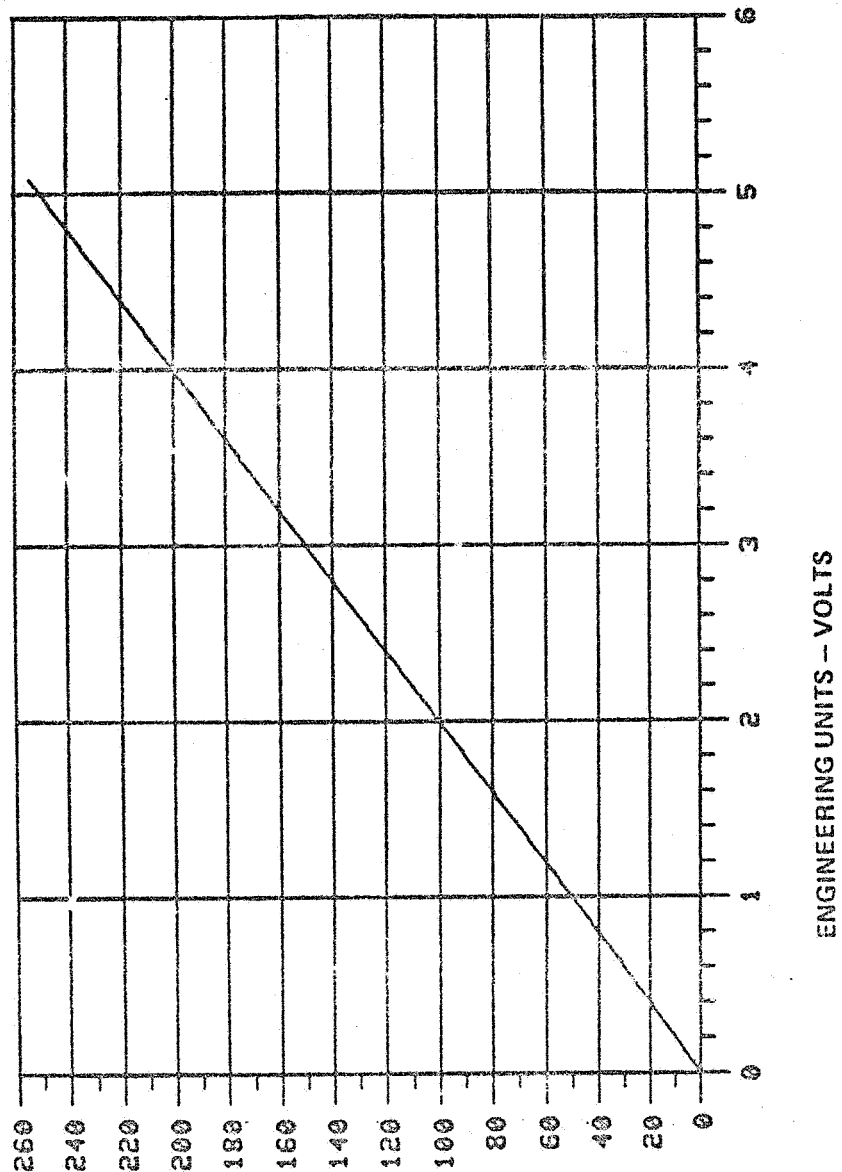


TELEMETRY COUNTS

SVS-10266/3A
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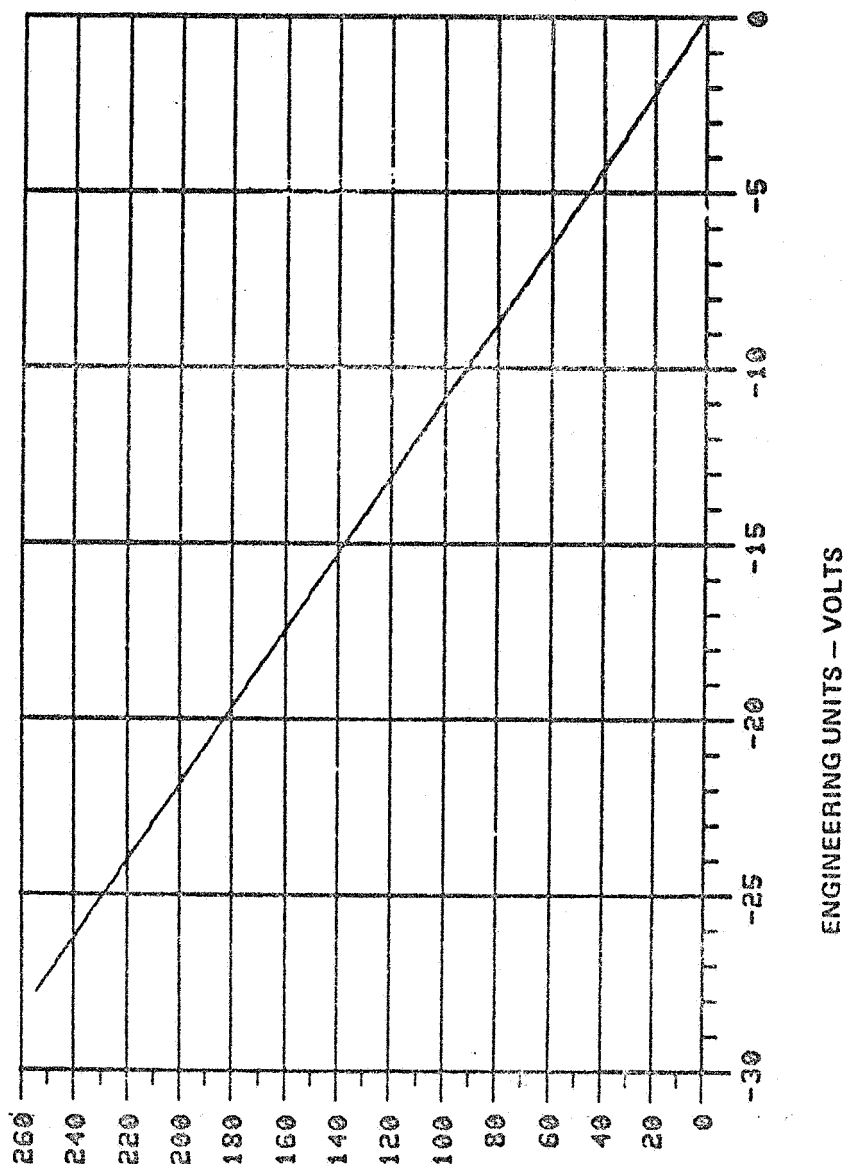


TELEMETRY COUNTS

SVS-10266/3A
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COUNTS VS ENGINEERING UNITS FOR TH219UN

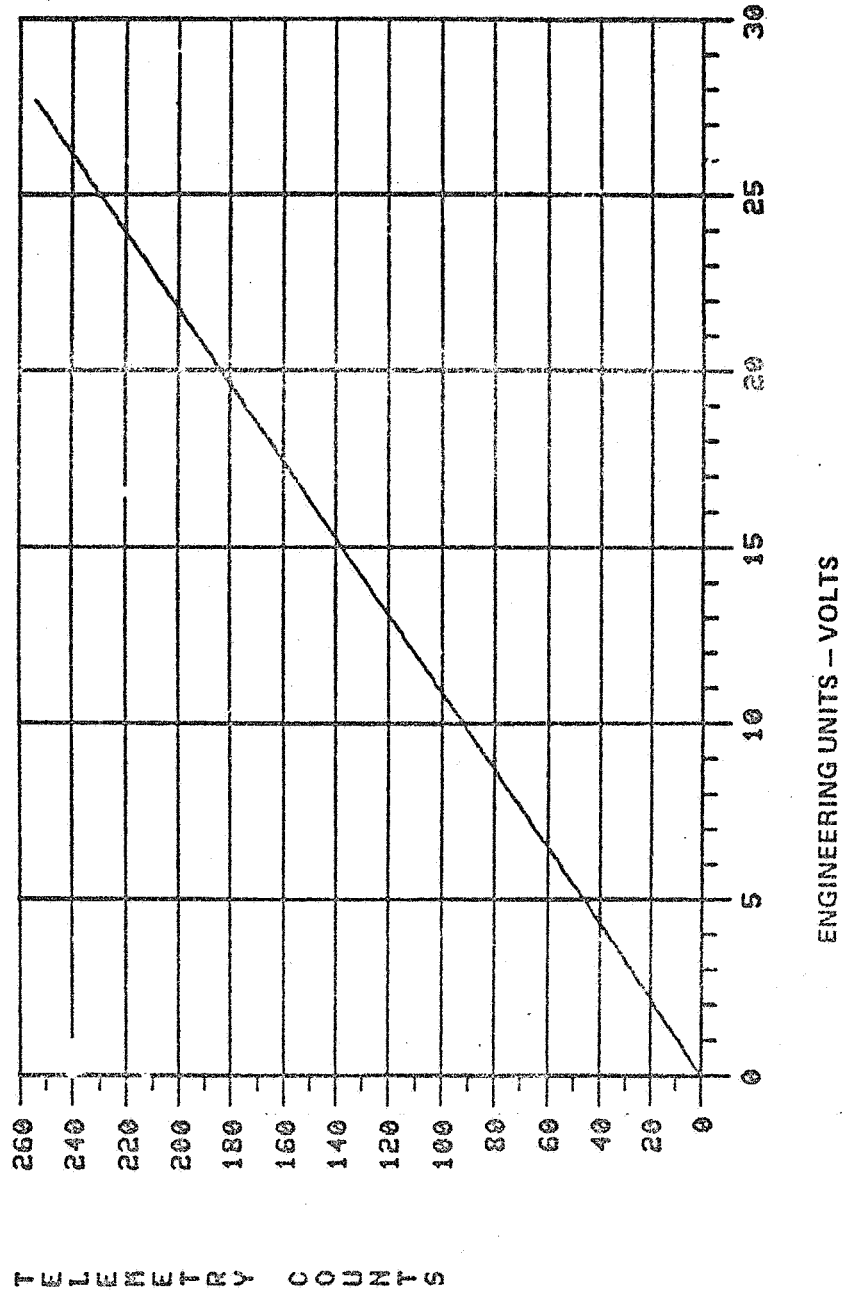


TELEMETRY COUNTS

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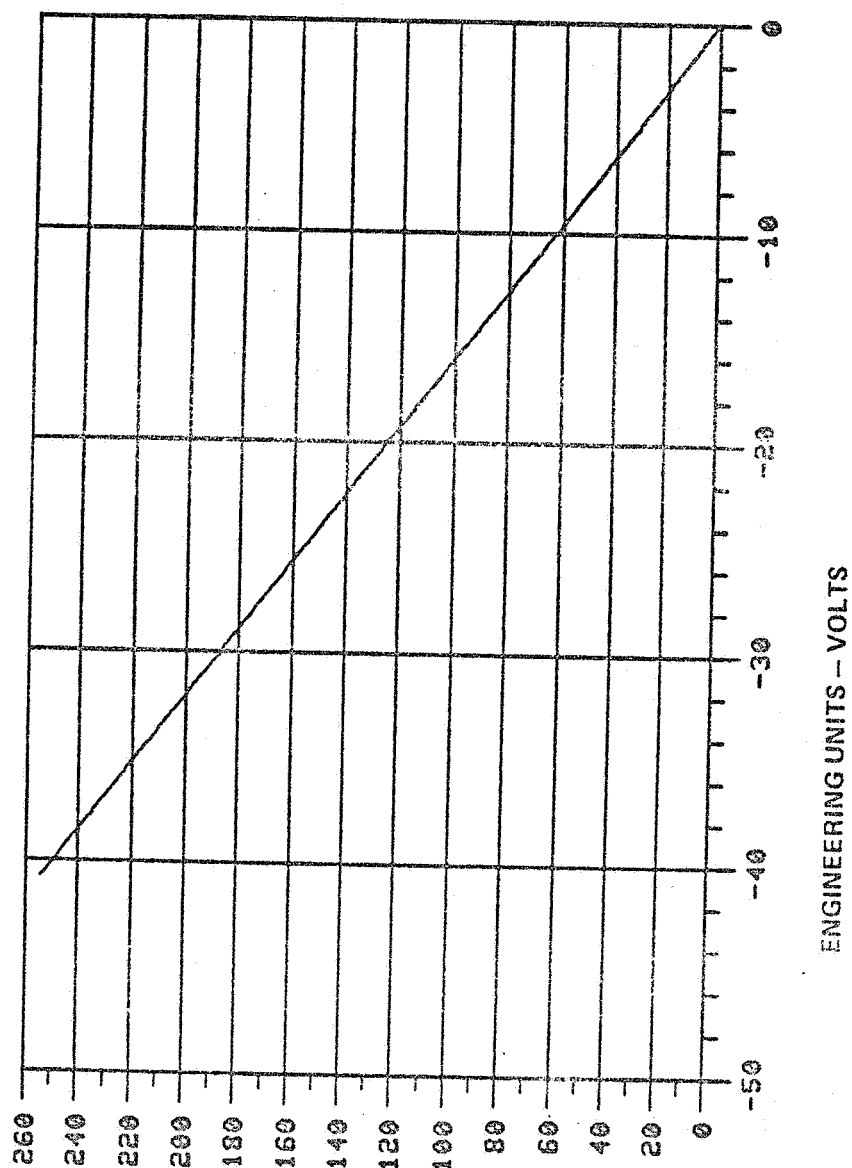
COUNTS VS ENGINEERING UNITS FOR TH219UP



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COUNTS VS ENGINEERING UNITS FOR TM227UN

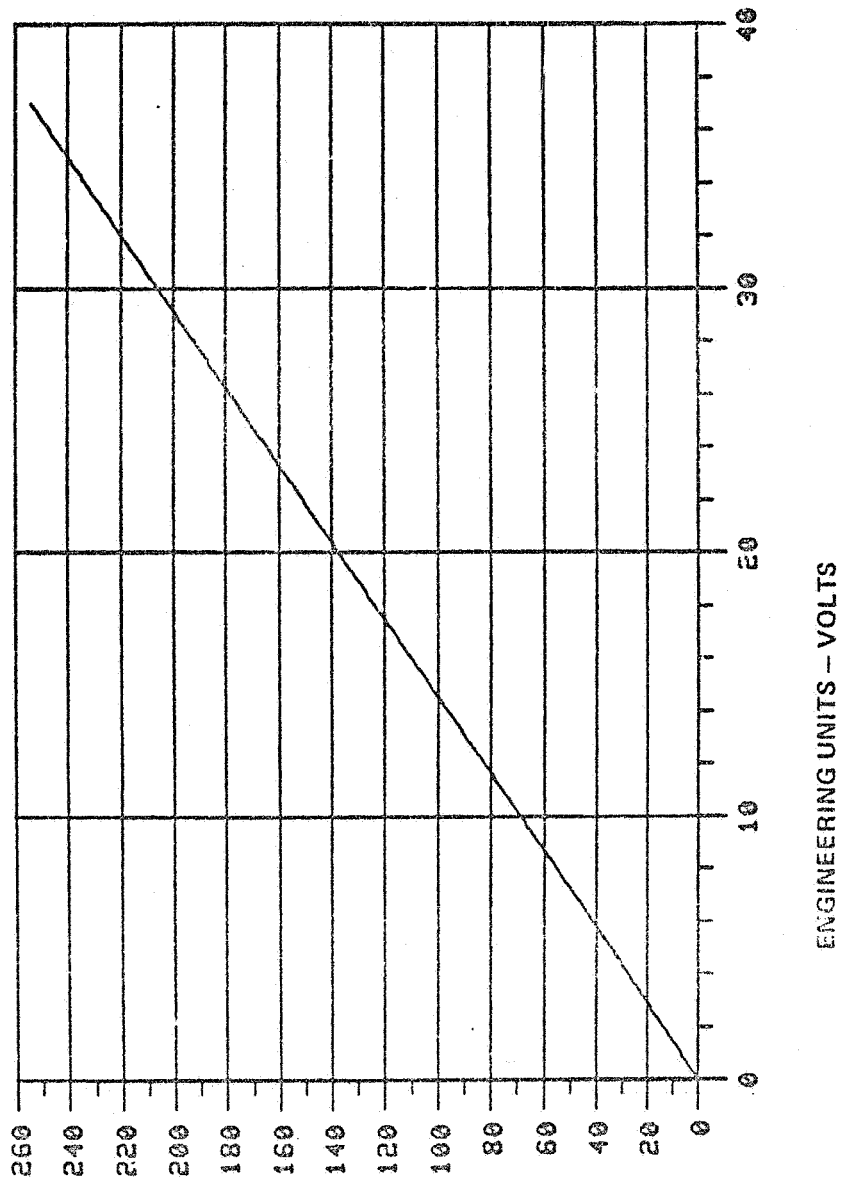


TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR TH227UP

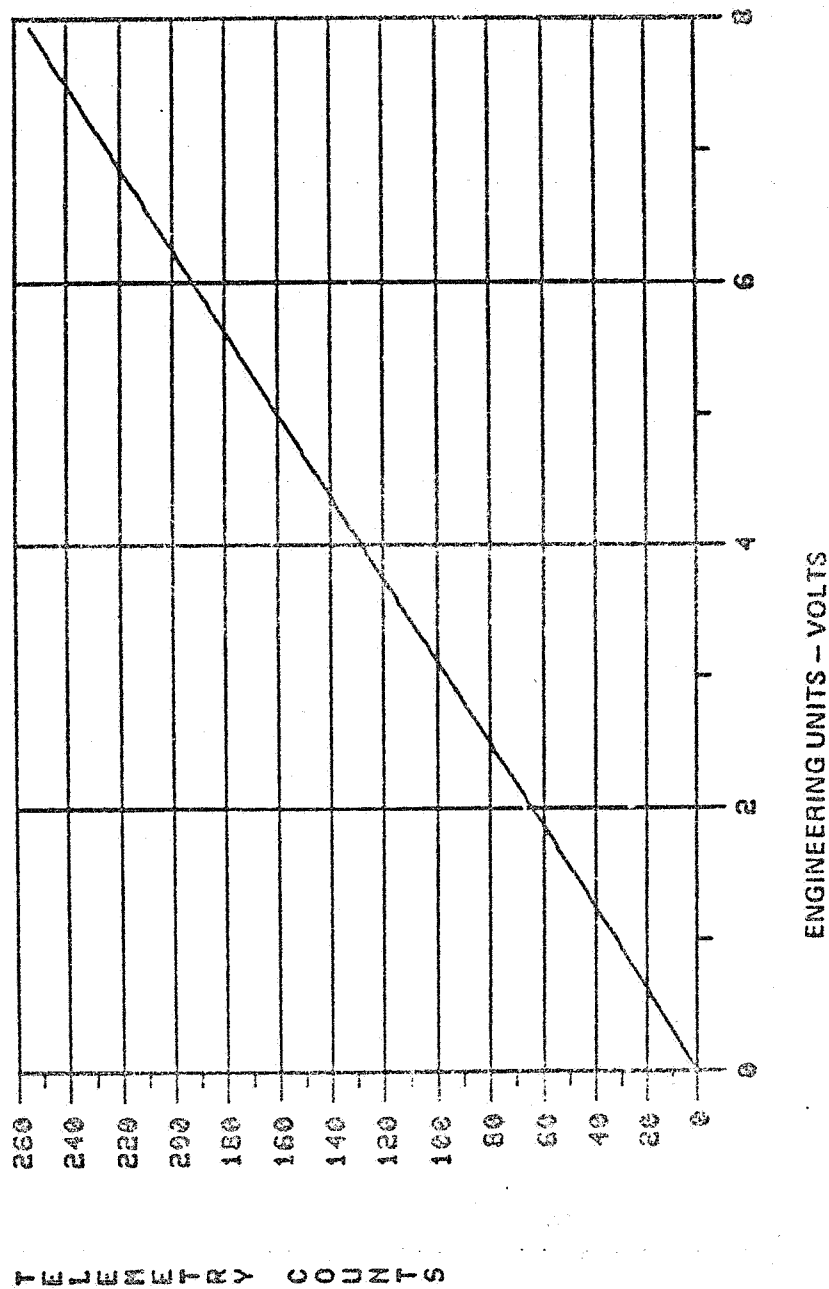


TELEMETRY COUNTS

ENGINEERING UNITS - VOLTS

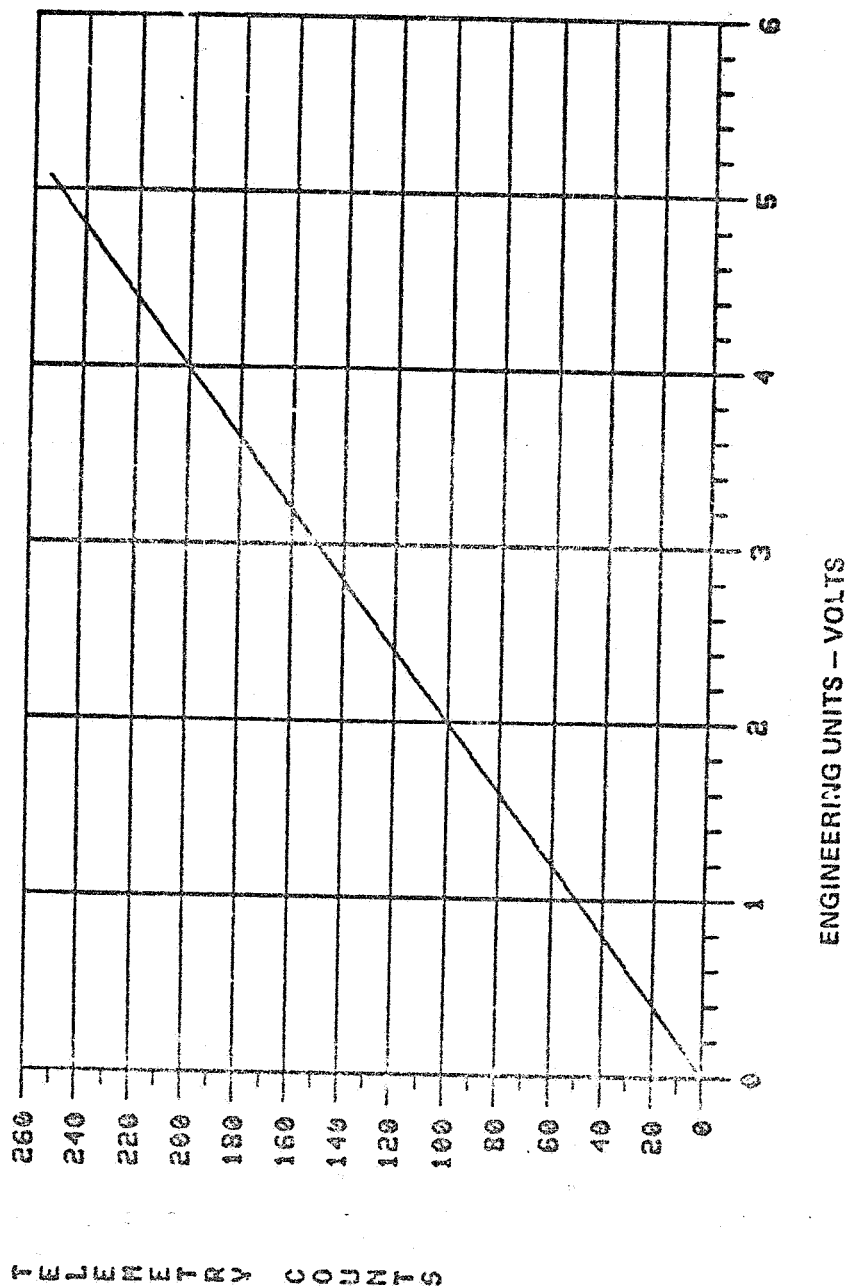
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COUNTS VS ENGINEERING UNITS FOR TME7U



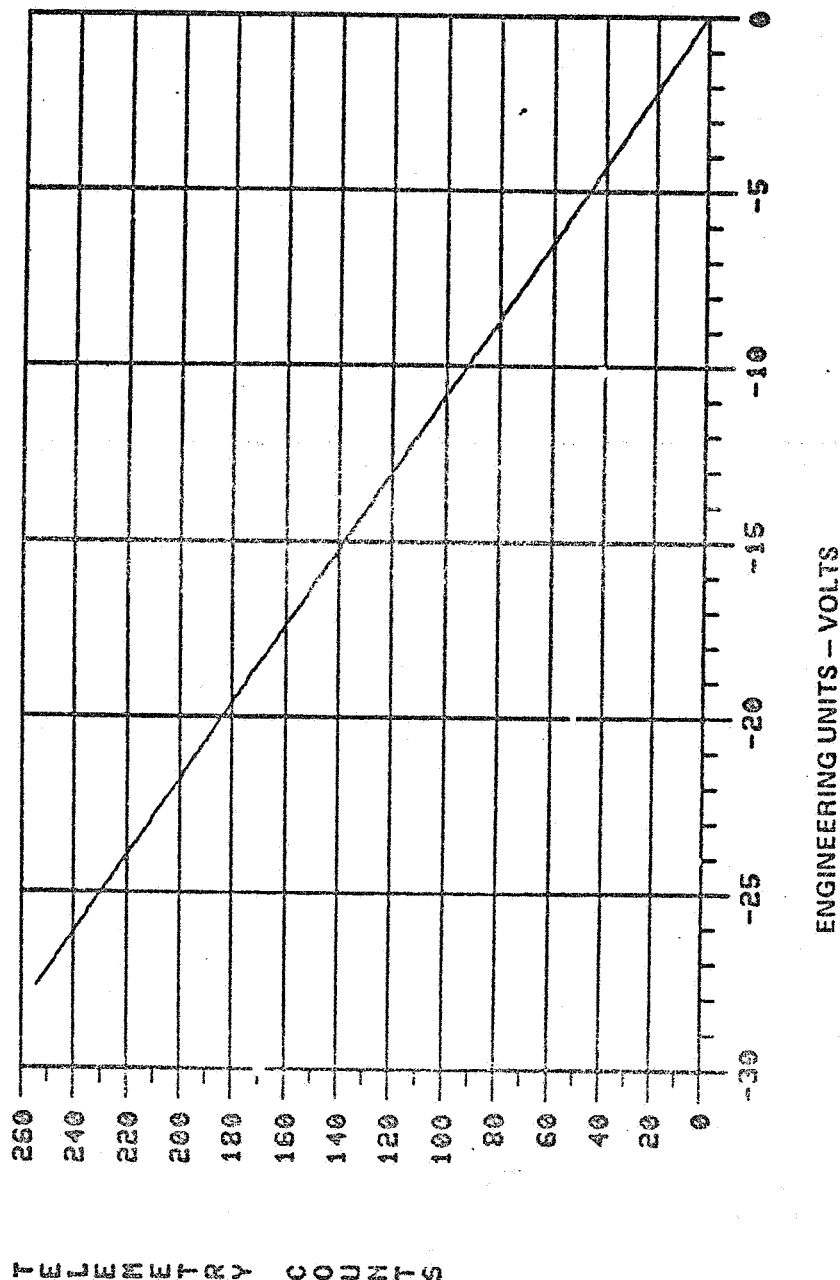
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COUNTS VS ENGINEERING UNITS FOR TWRADUR



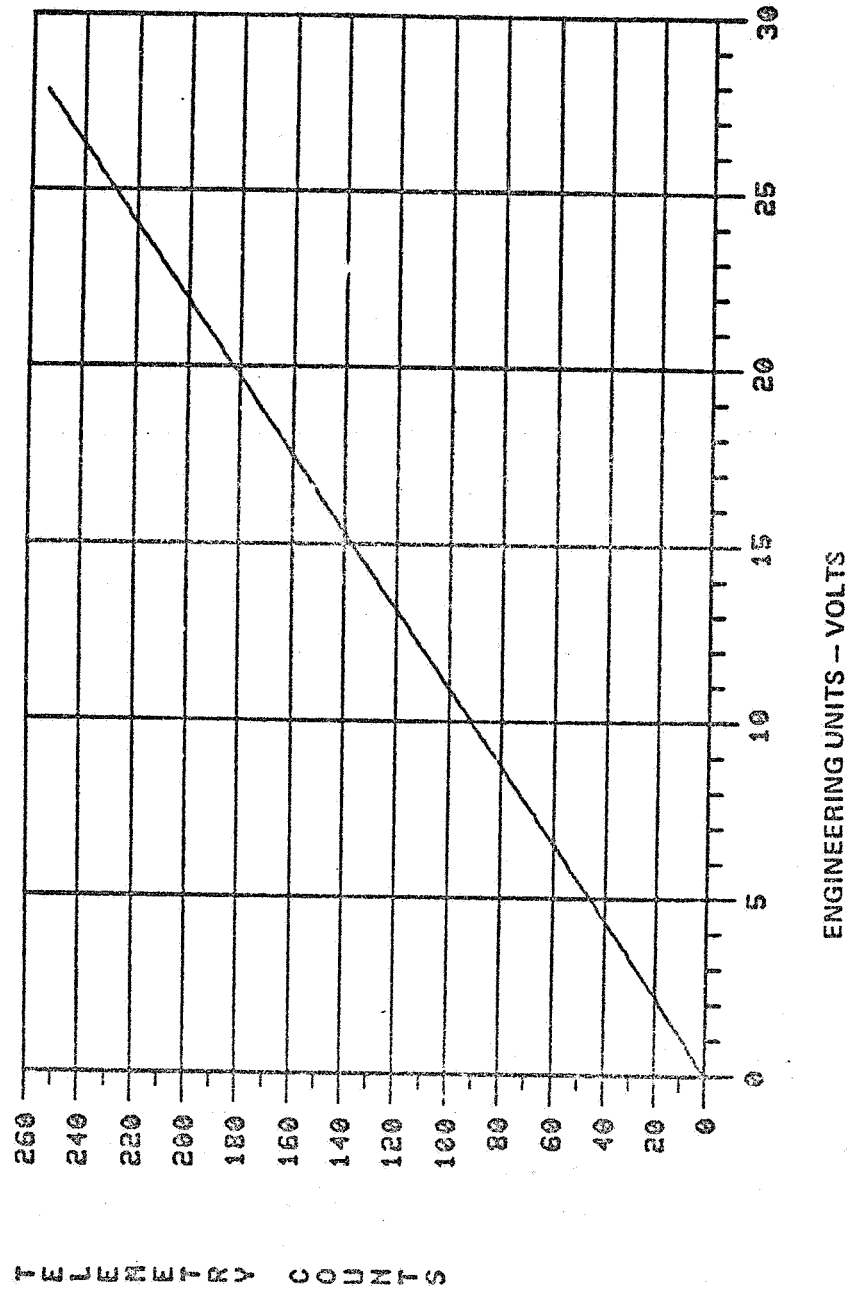
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COUNTS VS ENGINEERING UNITS FOR TM319UN



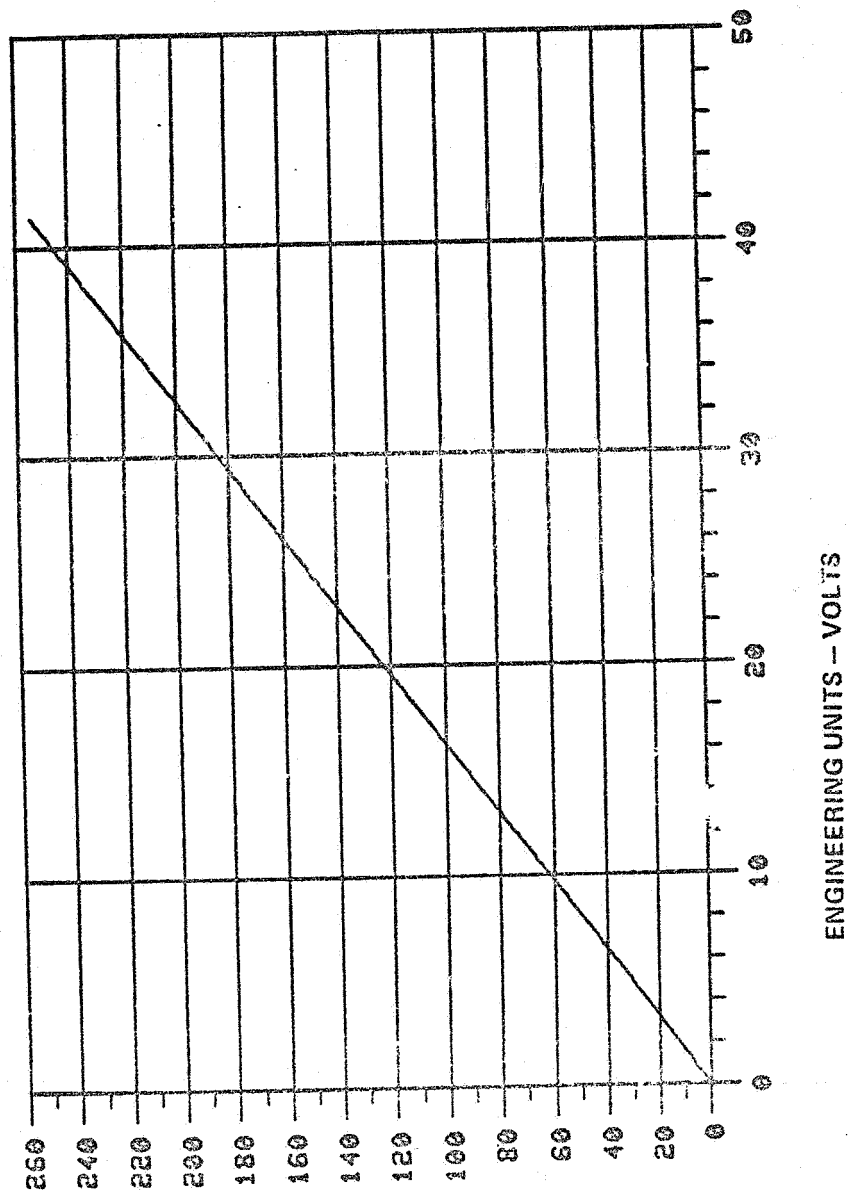
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COUNTS VS ENGINEERING UNITS FOR TM319UP



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COUNTS VS ENGINEERING UNITS FOR TR33V



TELEMETRY COUNTS

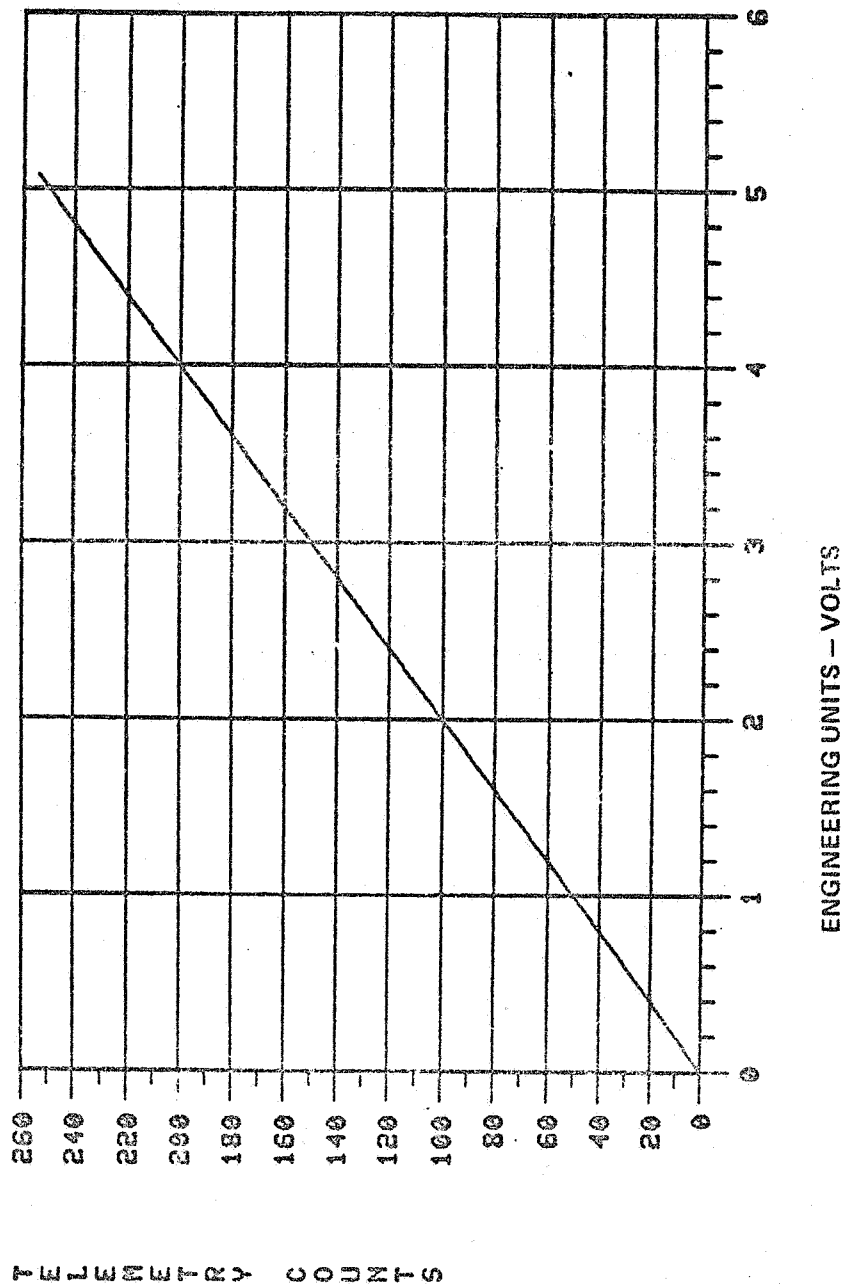
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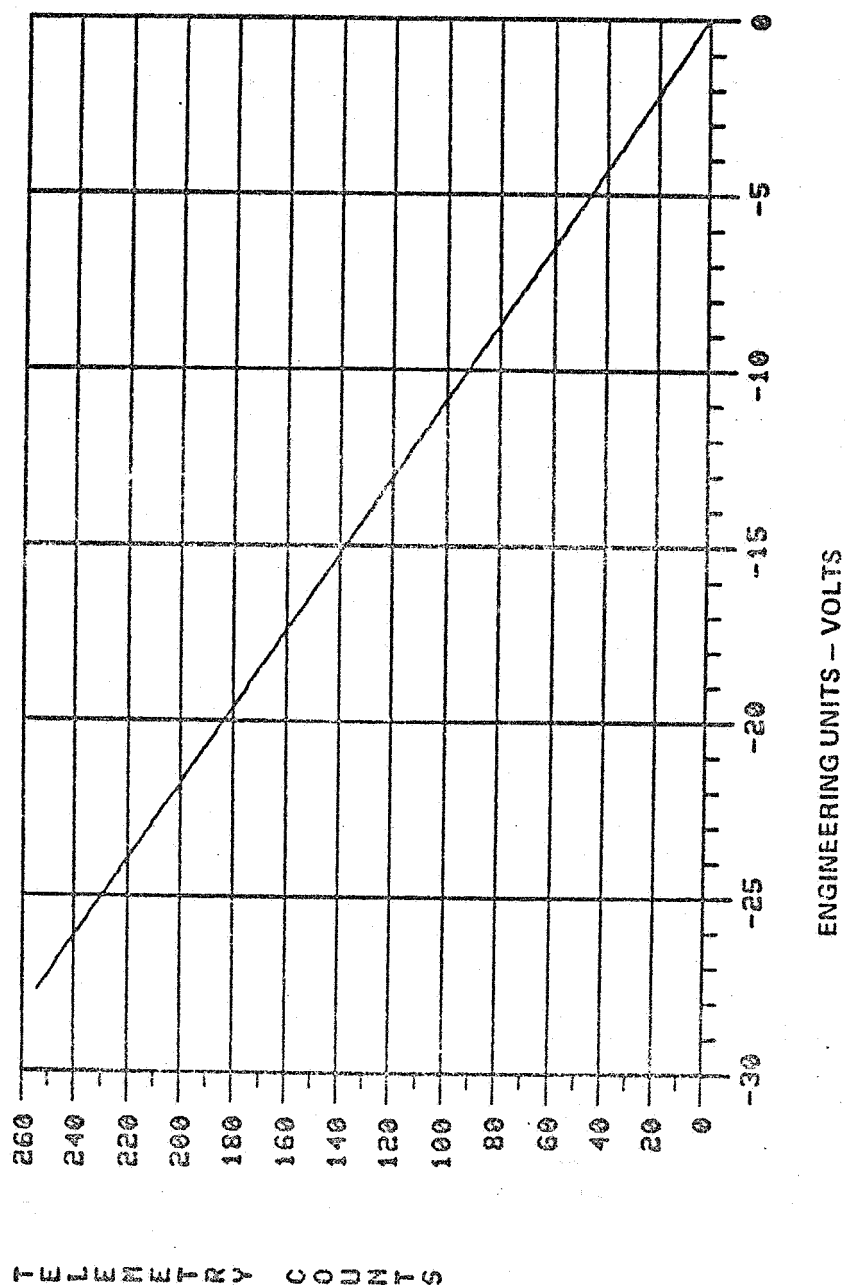
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COUNTS VS ENGINEERING UNITS FOR TA3ADUR



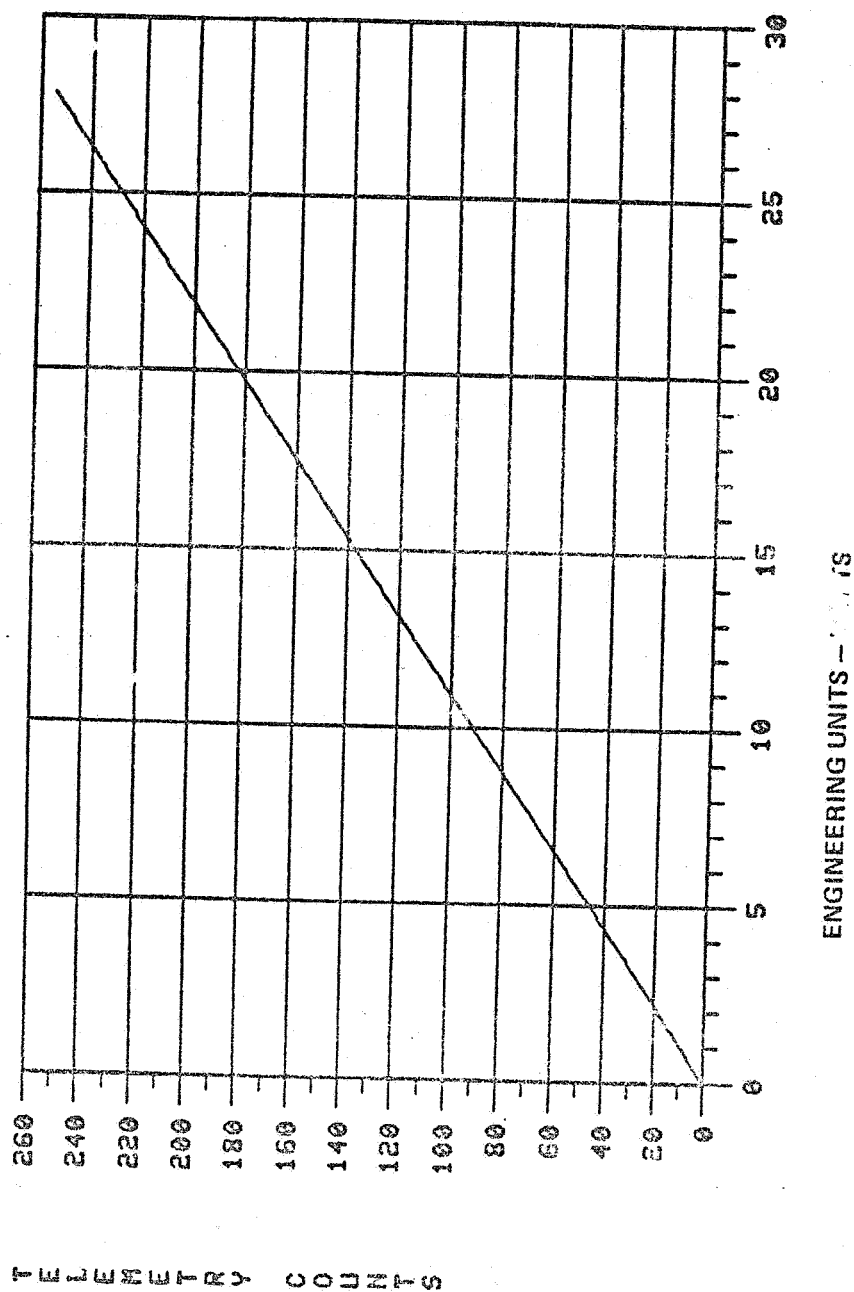
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COUNTS VS ENGINEERING UNITS FOR TH419UN



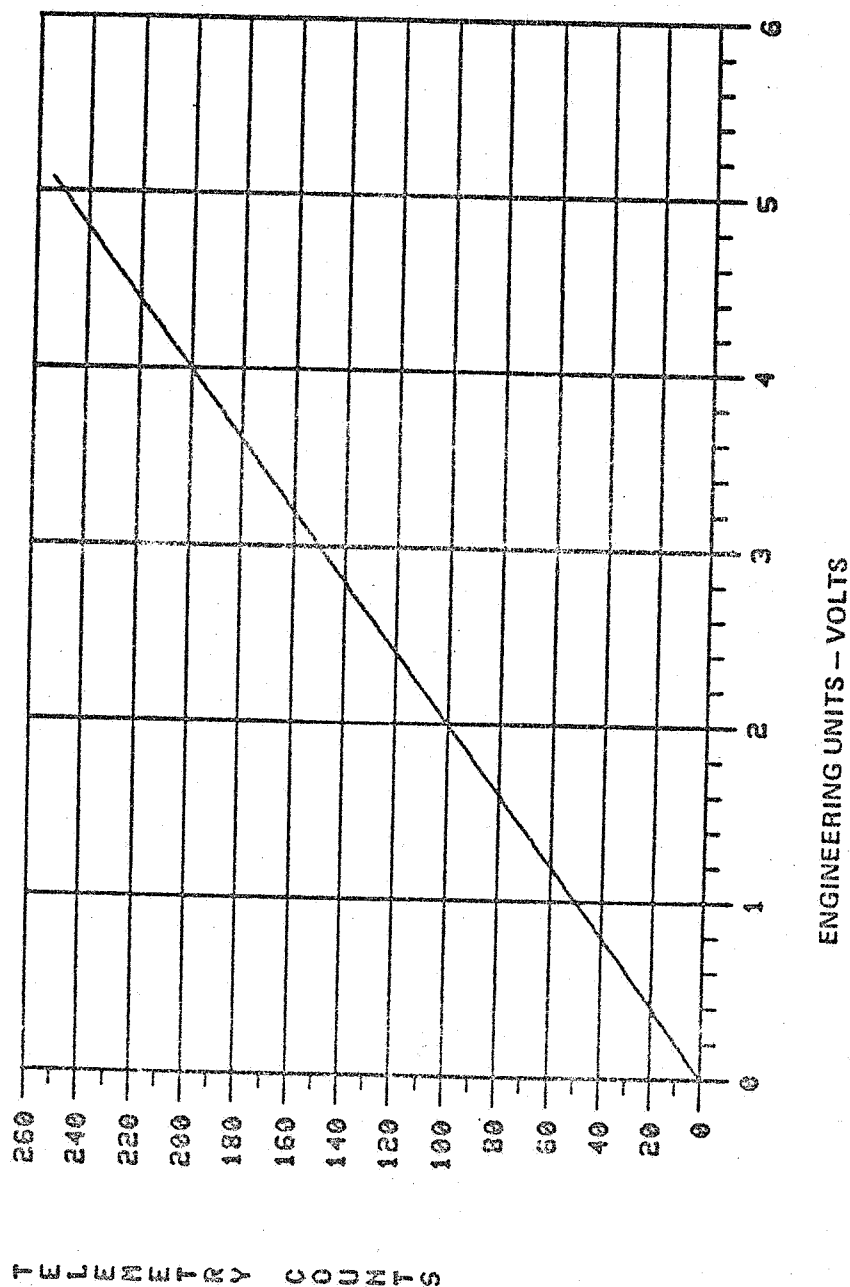
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COUNTS VS ENGINEERING UNITS FOR TH419UP



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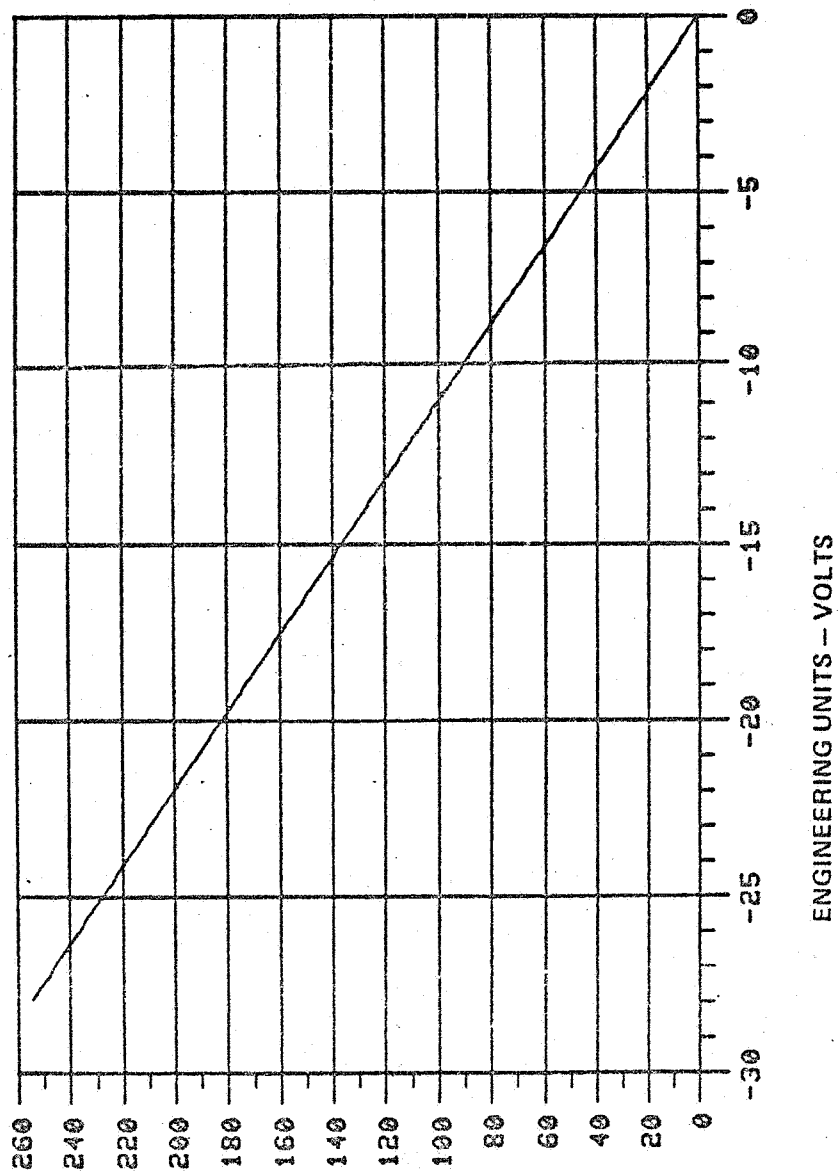
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COUNTS VS ENGINEERING UNITS FOR TM519UN

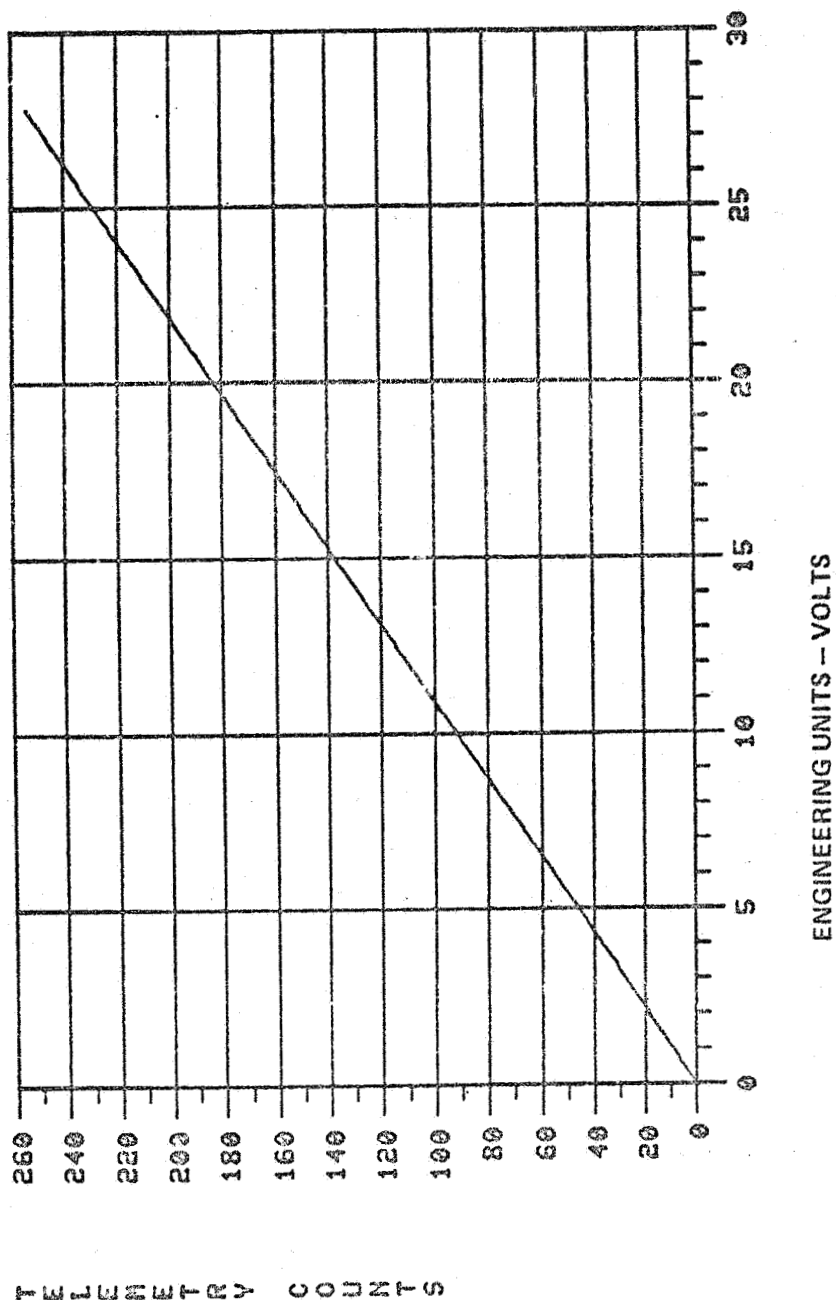


TELEMETRY COUNTS

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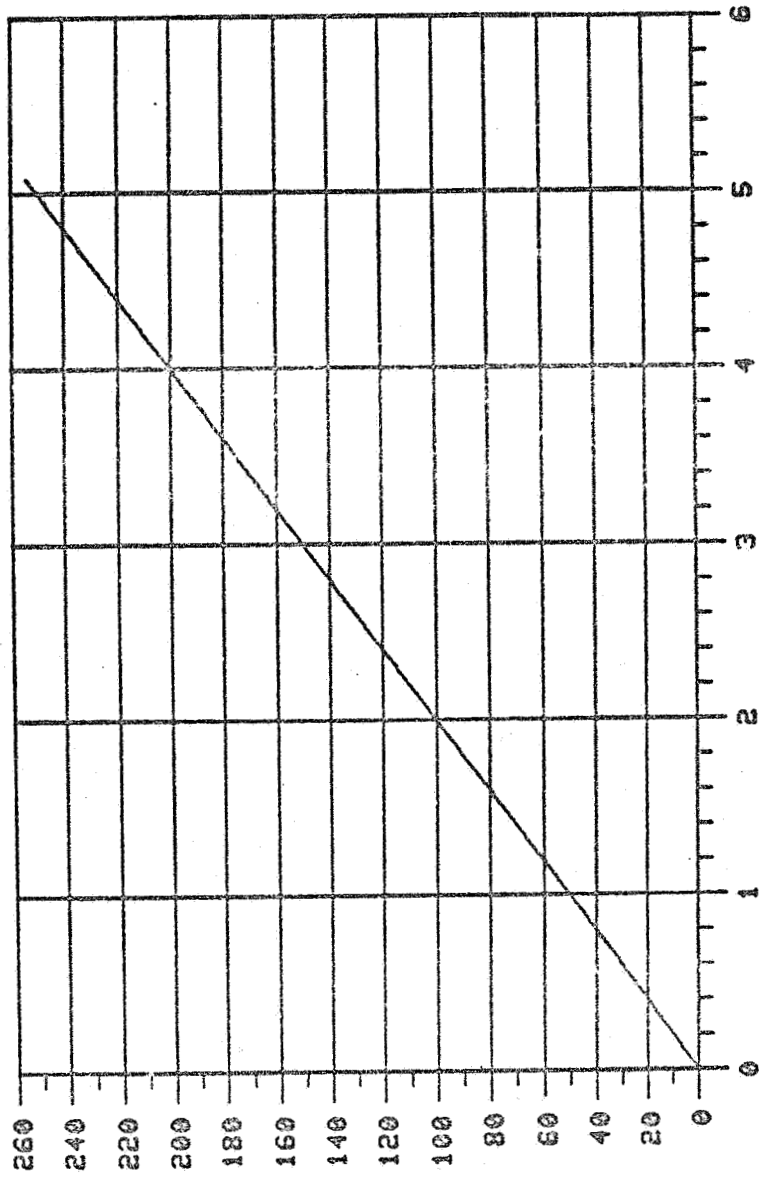
COUNTS VS ENGINEERING UNITS FOR TH519UP



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COUNTS VS ENGINEERING UNITS FOR TMSADUR



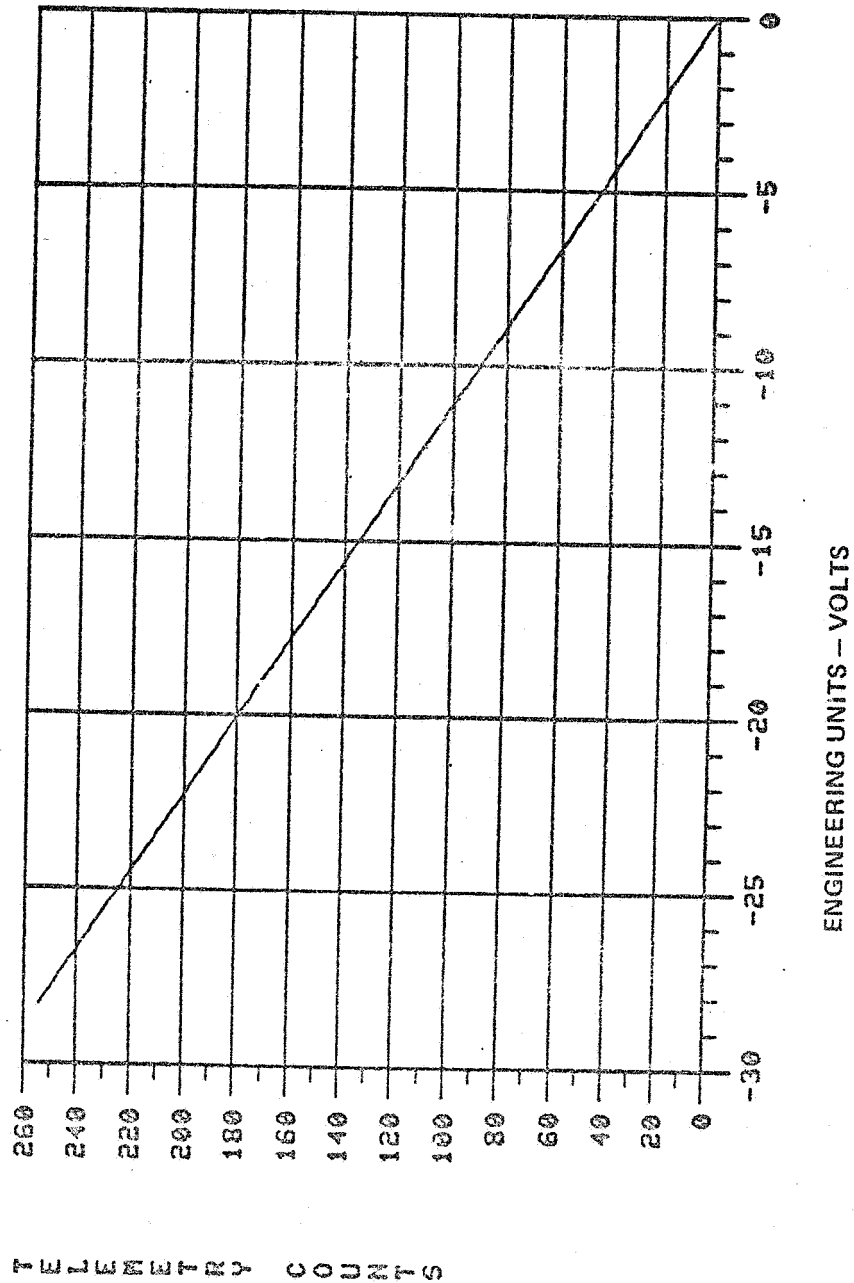
ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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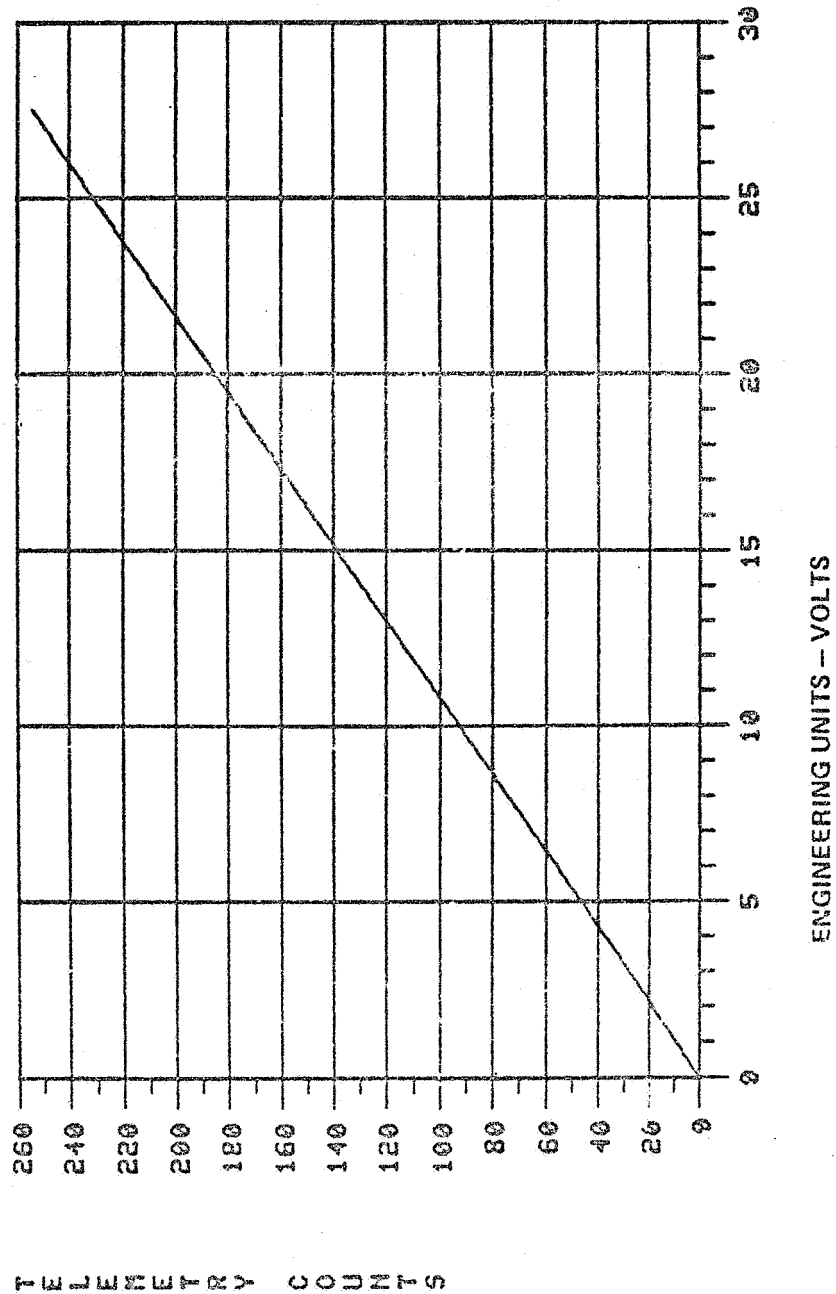
COUNTS VS ENGINEERING UNITS FOR TH619UN



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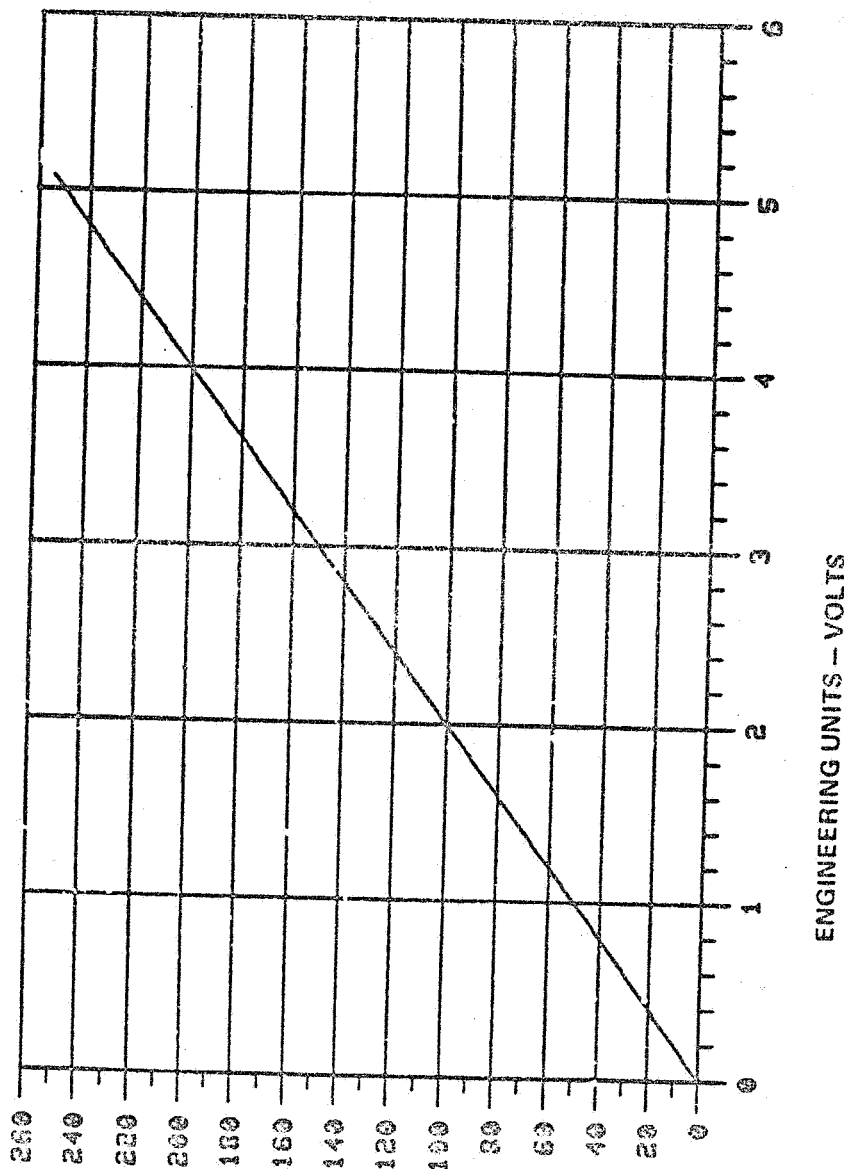
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COUNTS VS ENGINEERING UNITS FOR TM619UP



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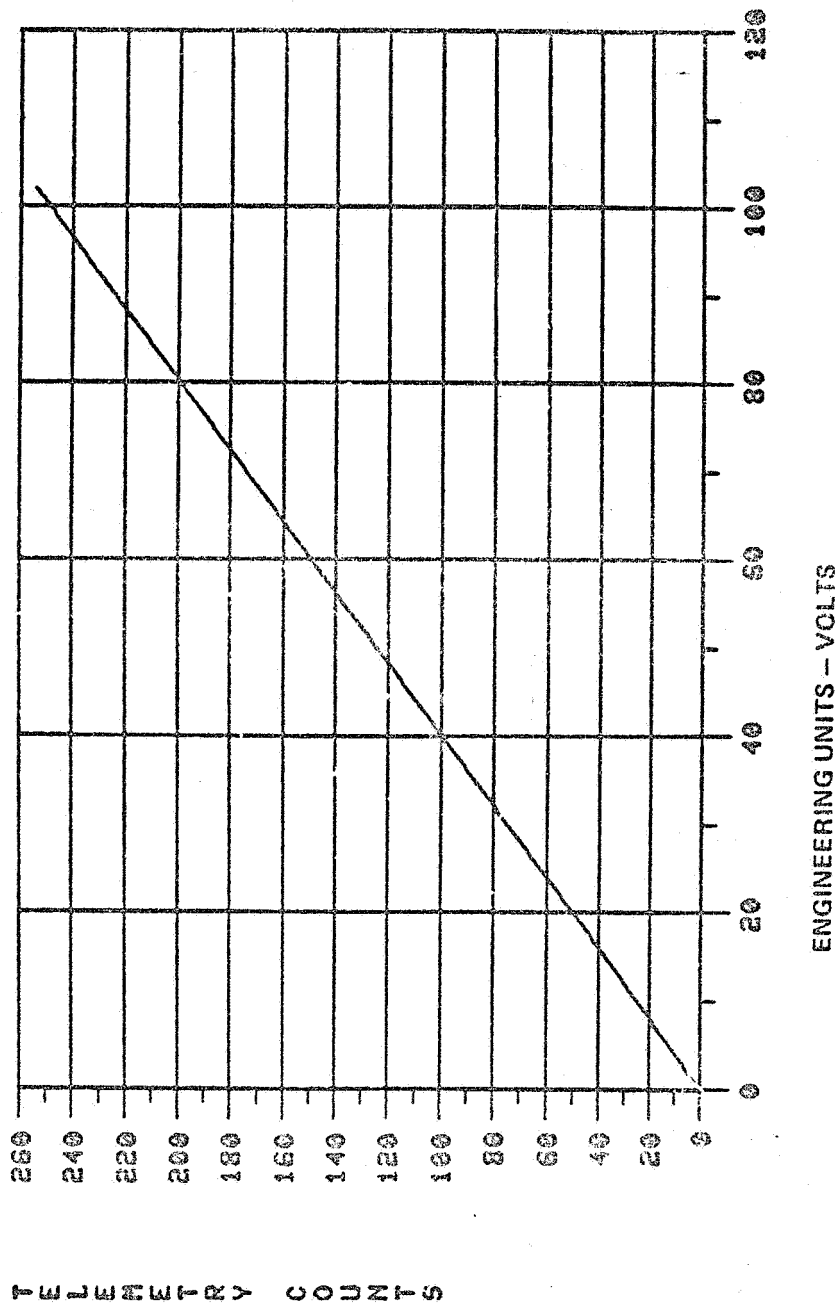
COUNTS VS ENGINEERING UNITS FOR THTADUR



TEMPERATURE COUNTS

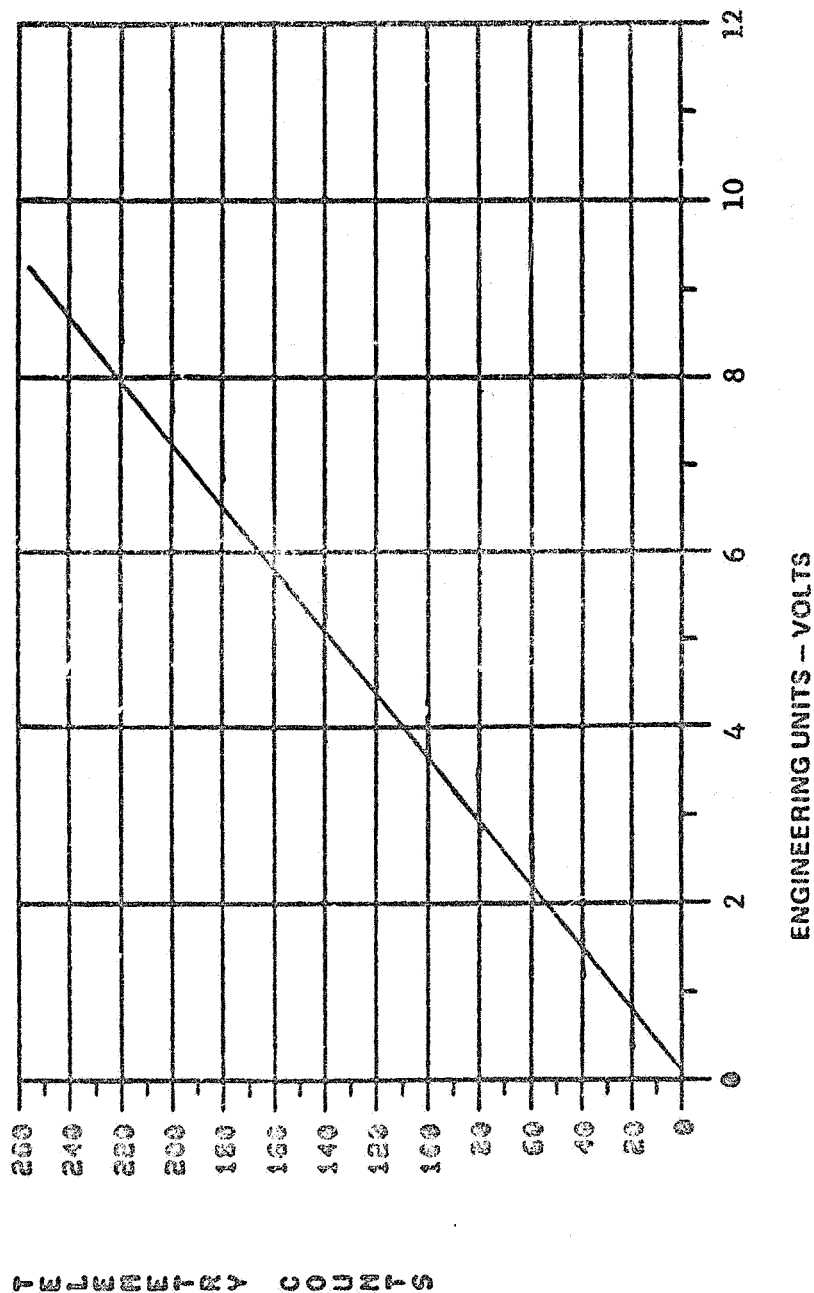
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COUNTS VS ENGINEERING UNITS FOR TTB0U



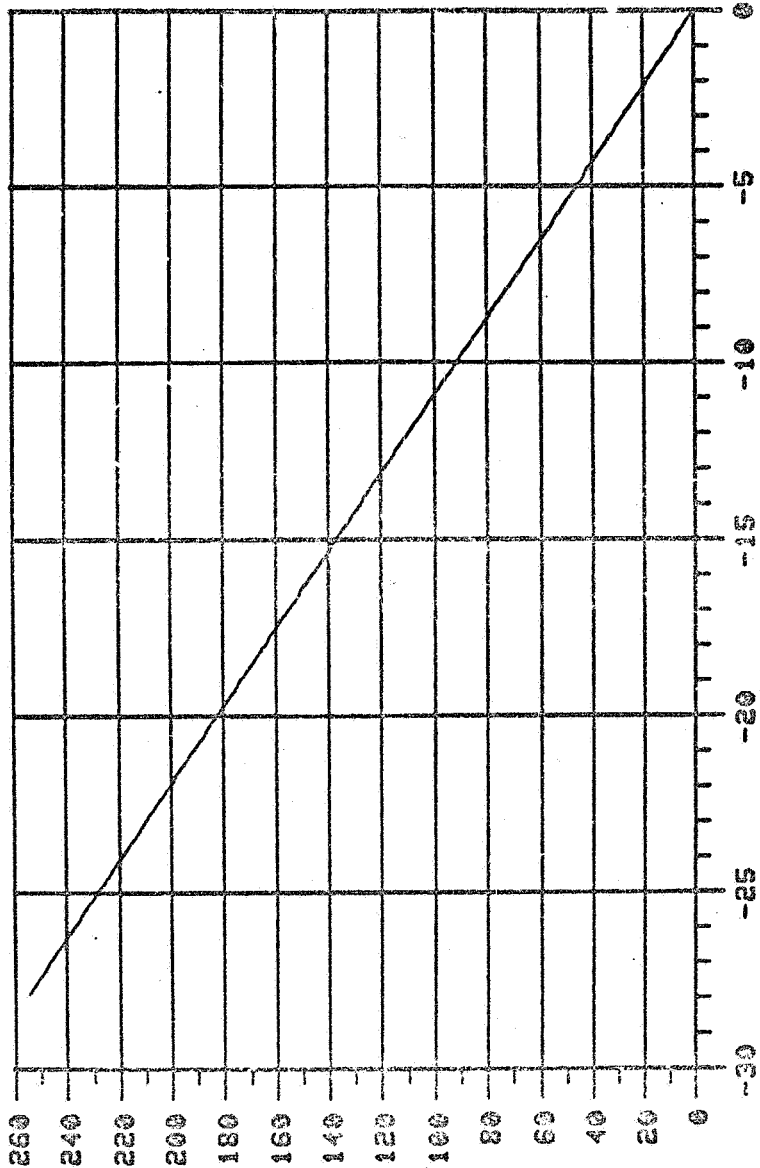
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COUNTS VS ENGINEERING UNITS FOR TAB V



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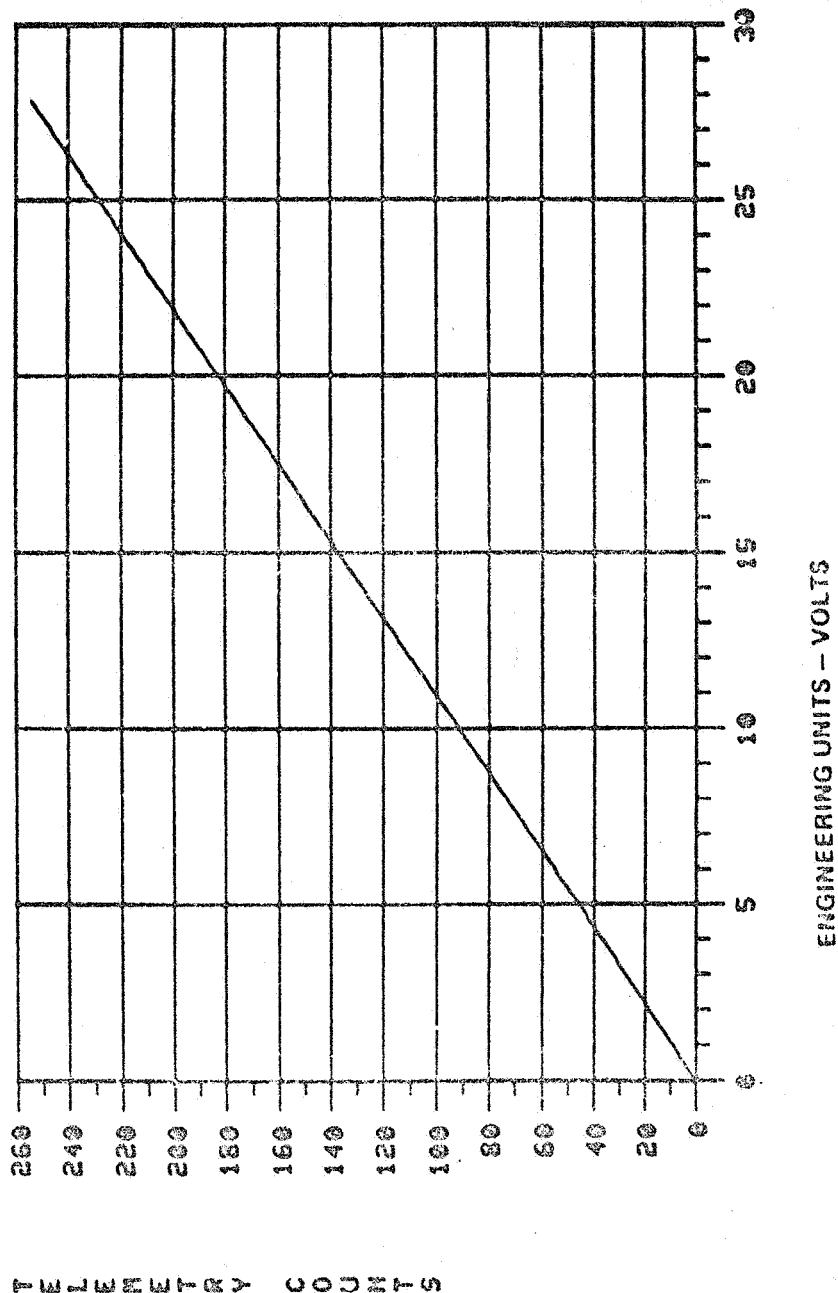


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

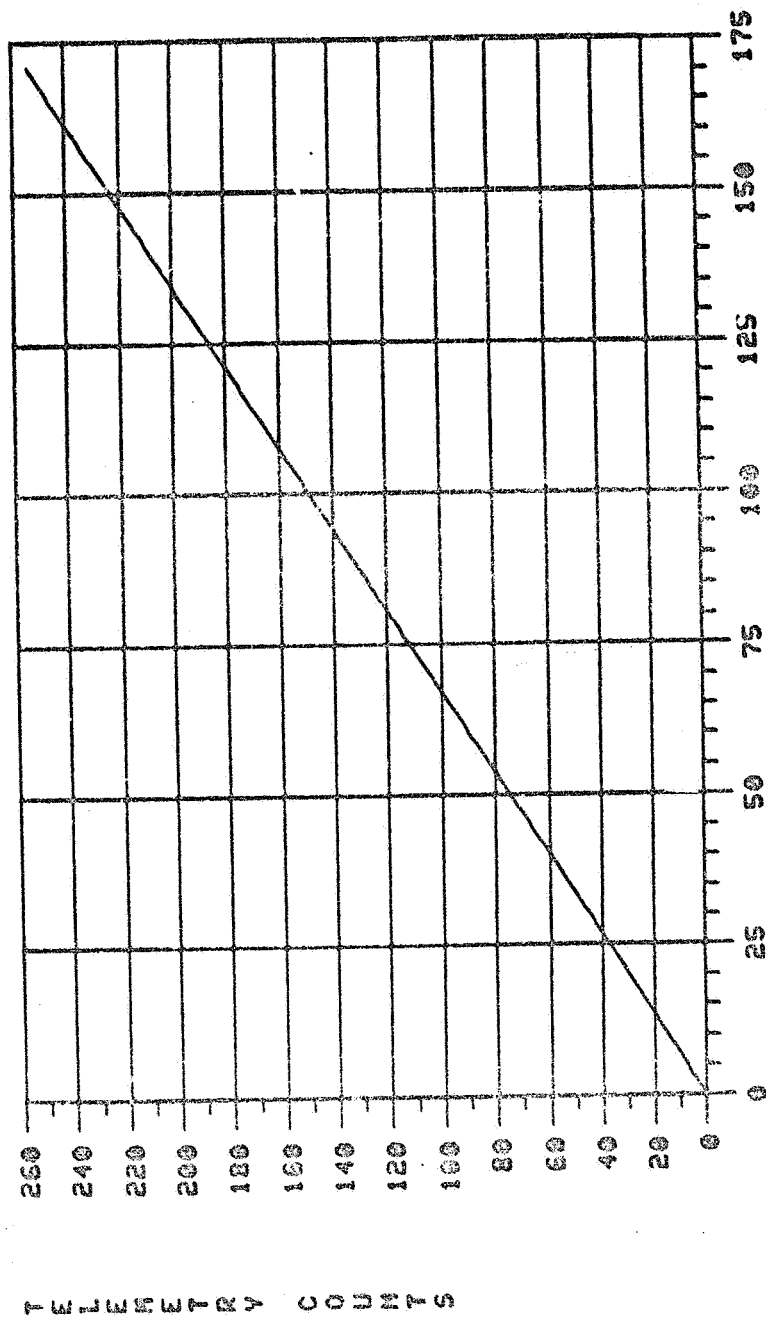
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COUNTS VS ENGINEERING UNITS FOR THIS DUP



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COUNTS VS ENGINEERING UNITS FOR TLMPII

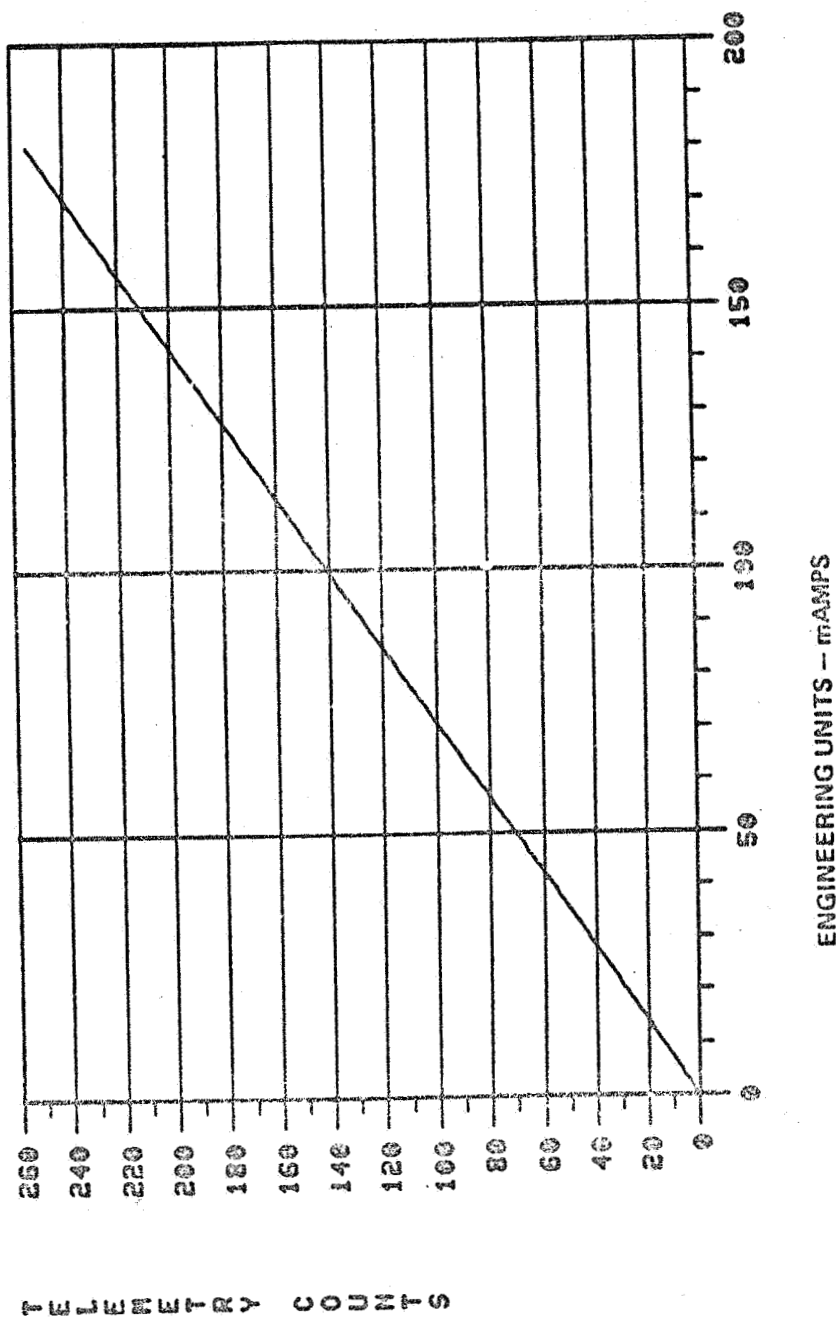


ENGINEERING UNITS - MAPS

TELEMETRY COUNTS

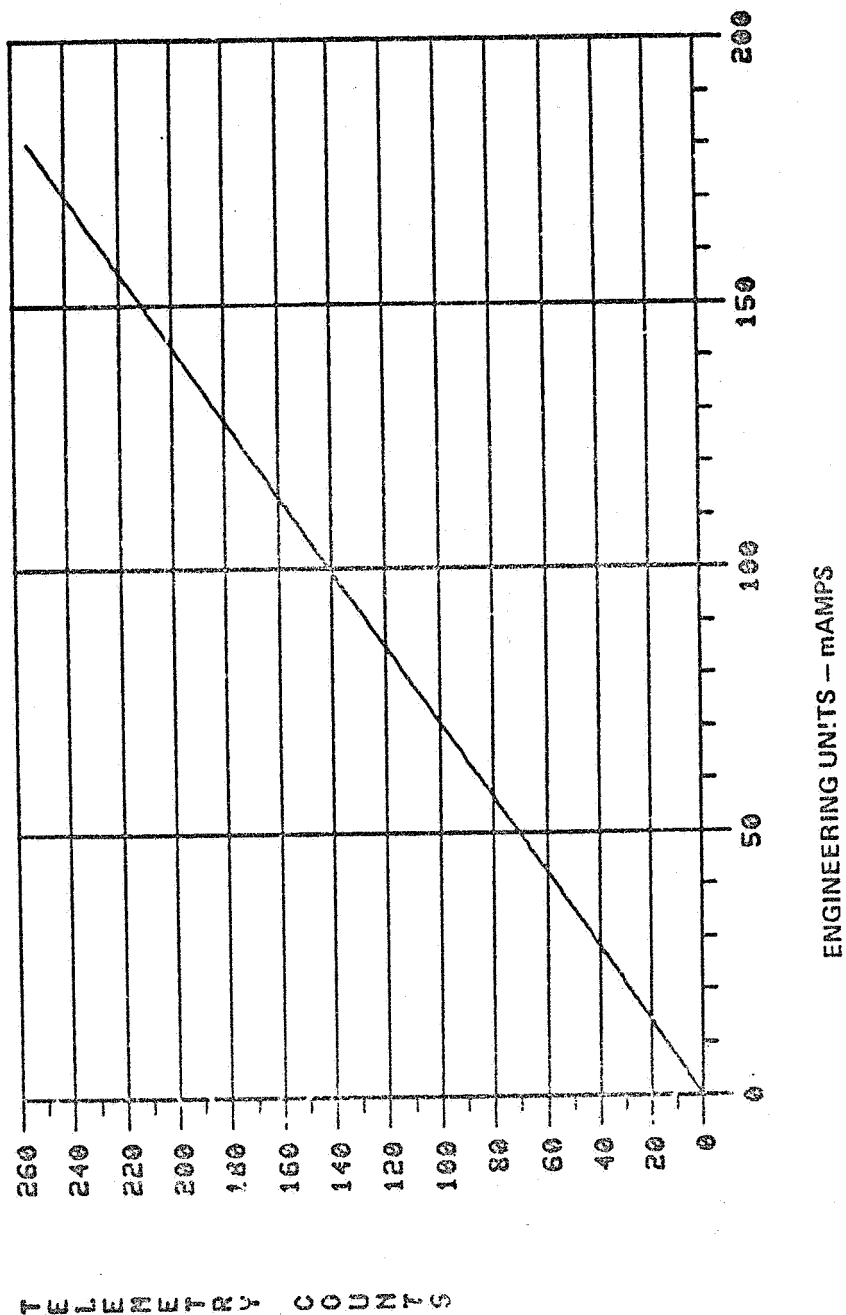
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COUNTS VS ENGINEERING UNITS FOR TMLRP21



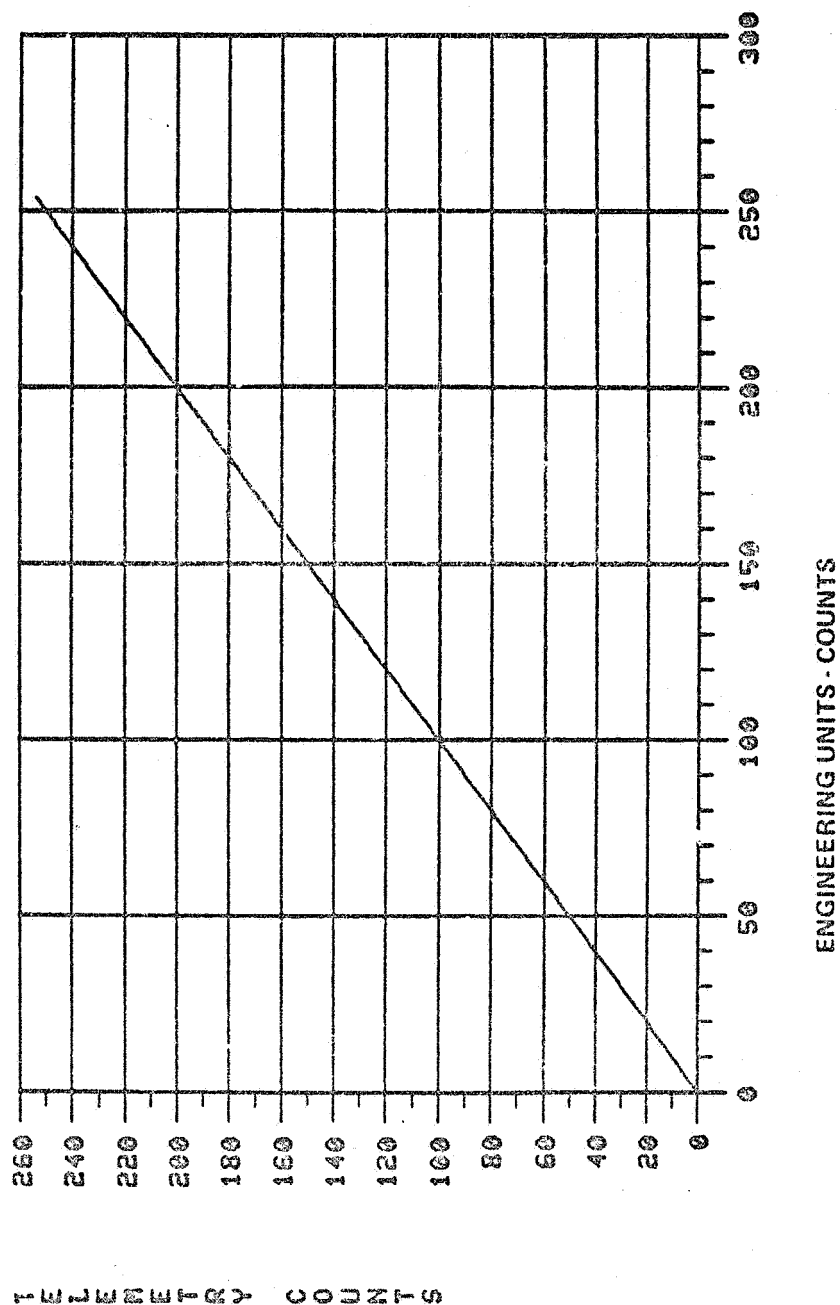
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COUNTS VS ENGINEERING UNITS FOR TMLP31



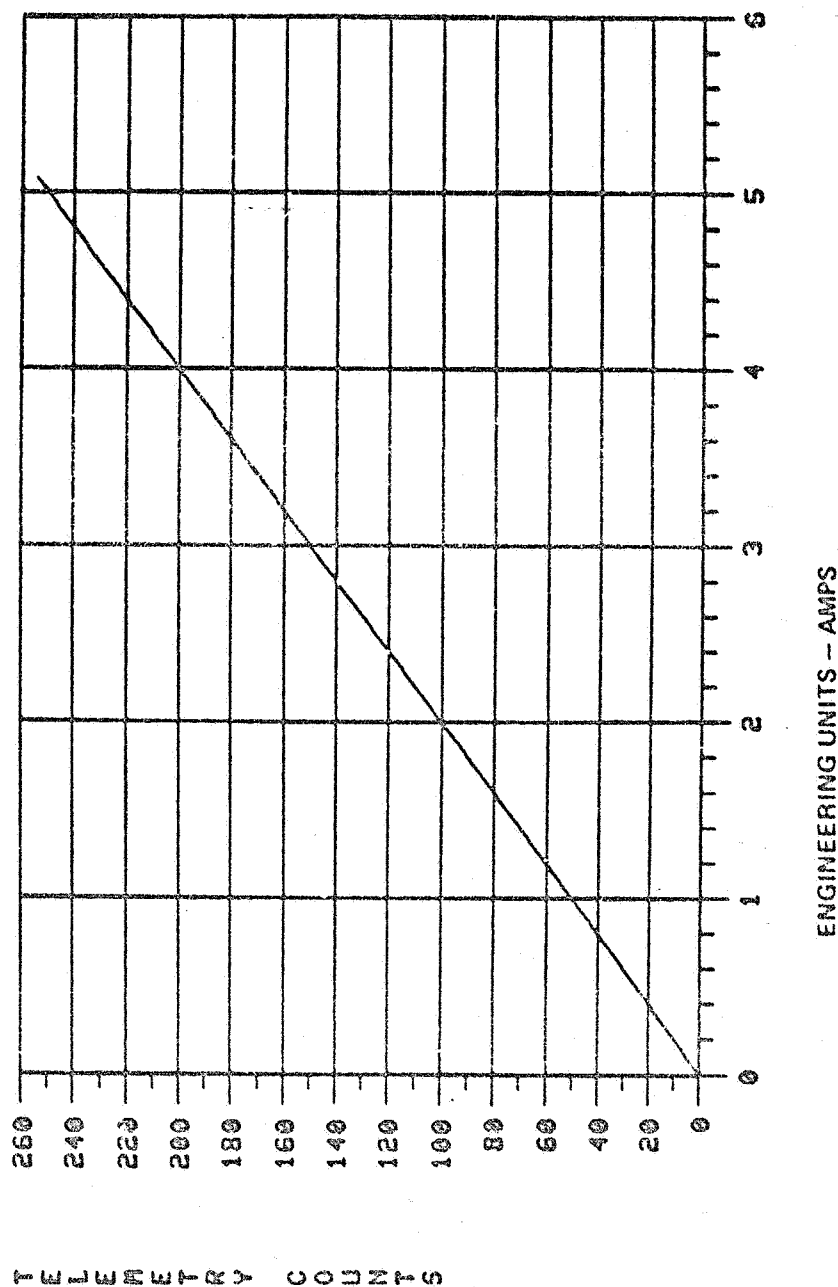
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COUNTS VS ENGINEERING UNITS FOR THLAPS



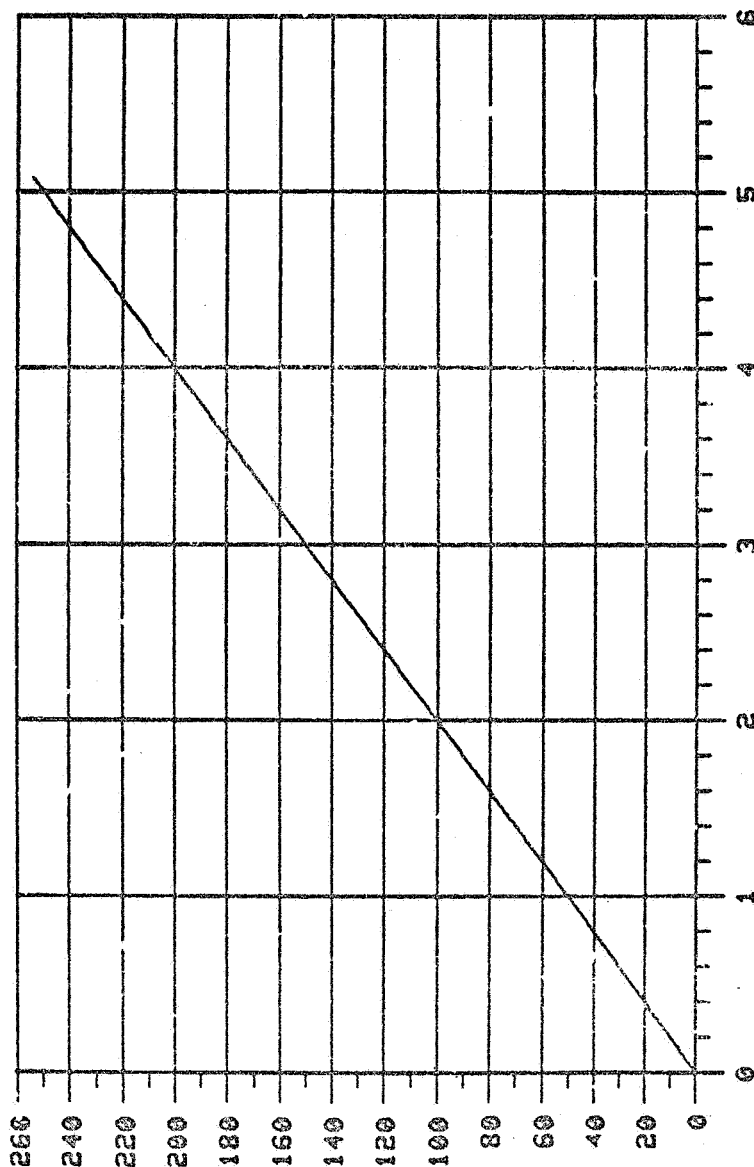
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COUNTS VS ENGINEERING UNITS FOR THPS11



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COUNTS VS ENGINEERING UNITS FOR THPS21

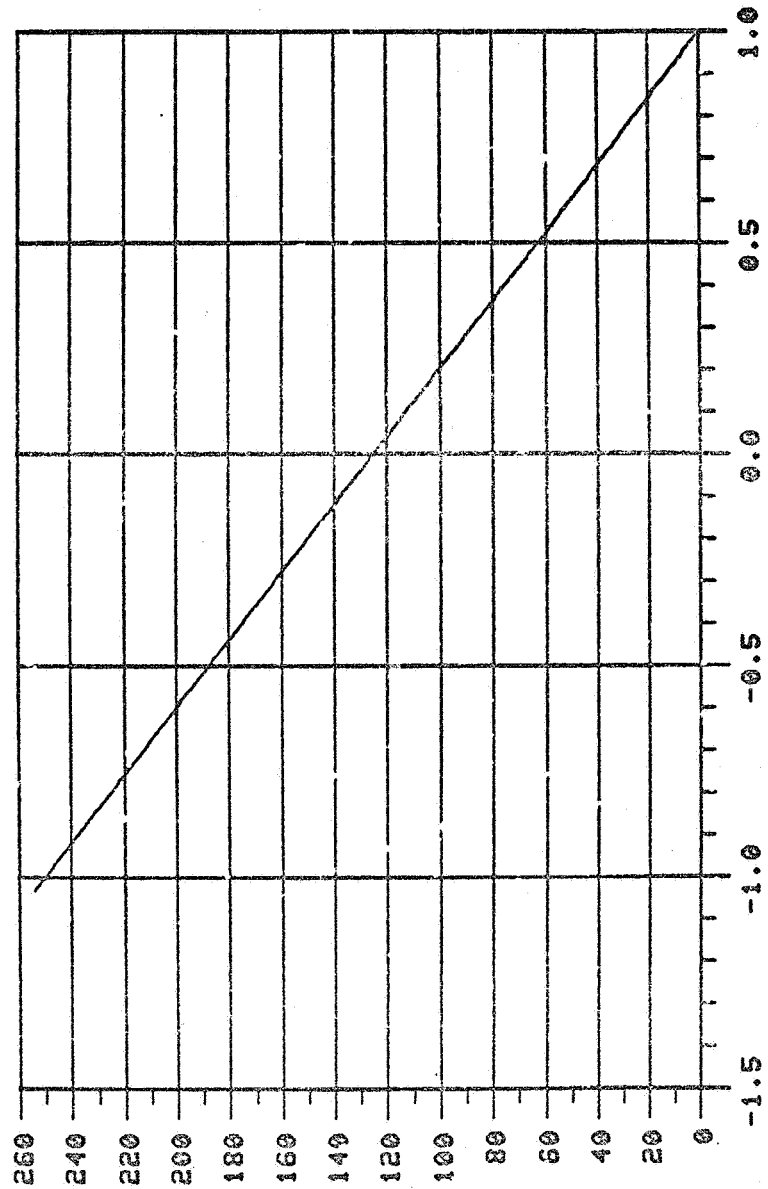


ENGINEERING UNITS - AMPS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR TMSLC11

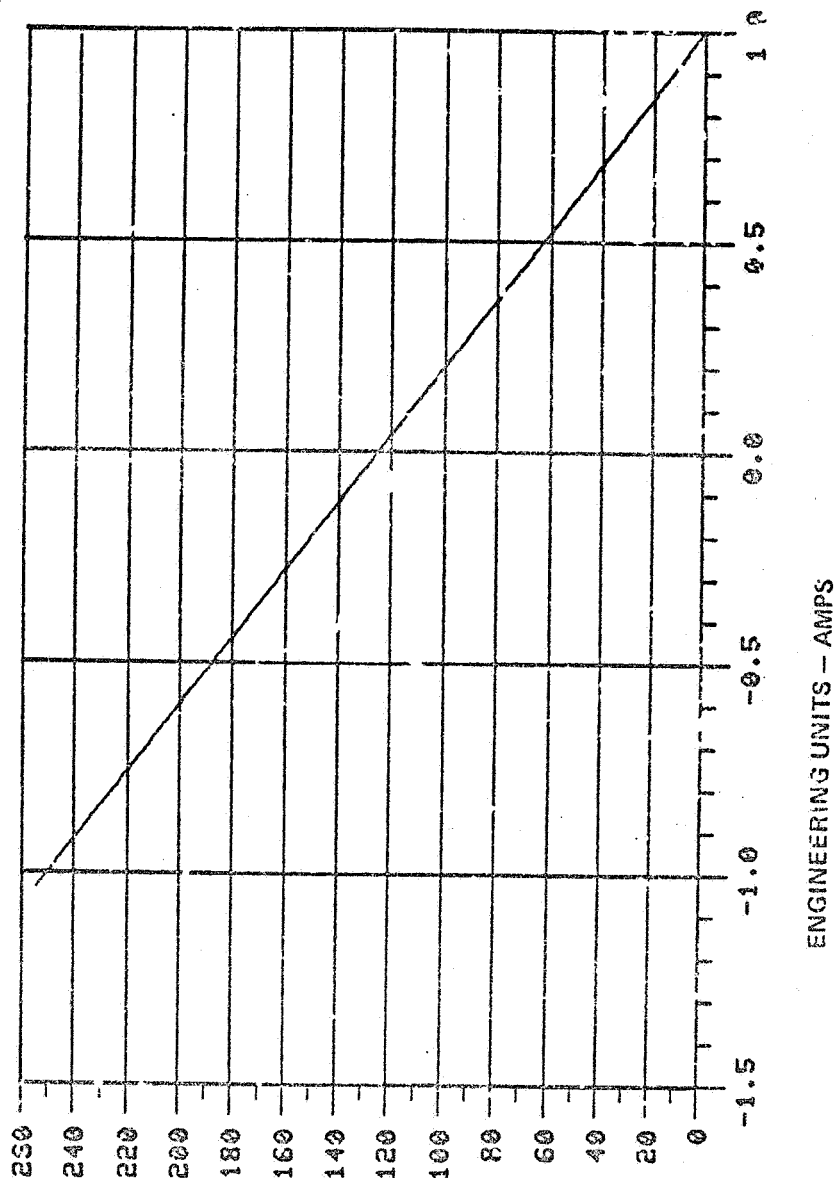


ENGINEERING UNITS - AMPS

TELEMETRY COUNTS

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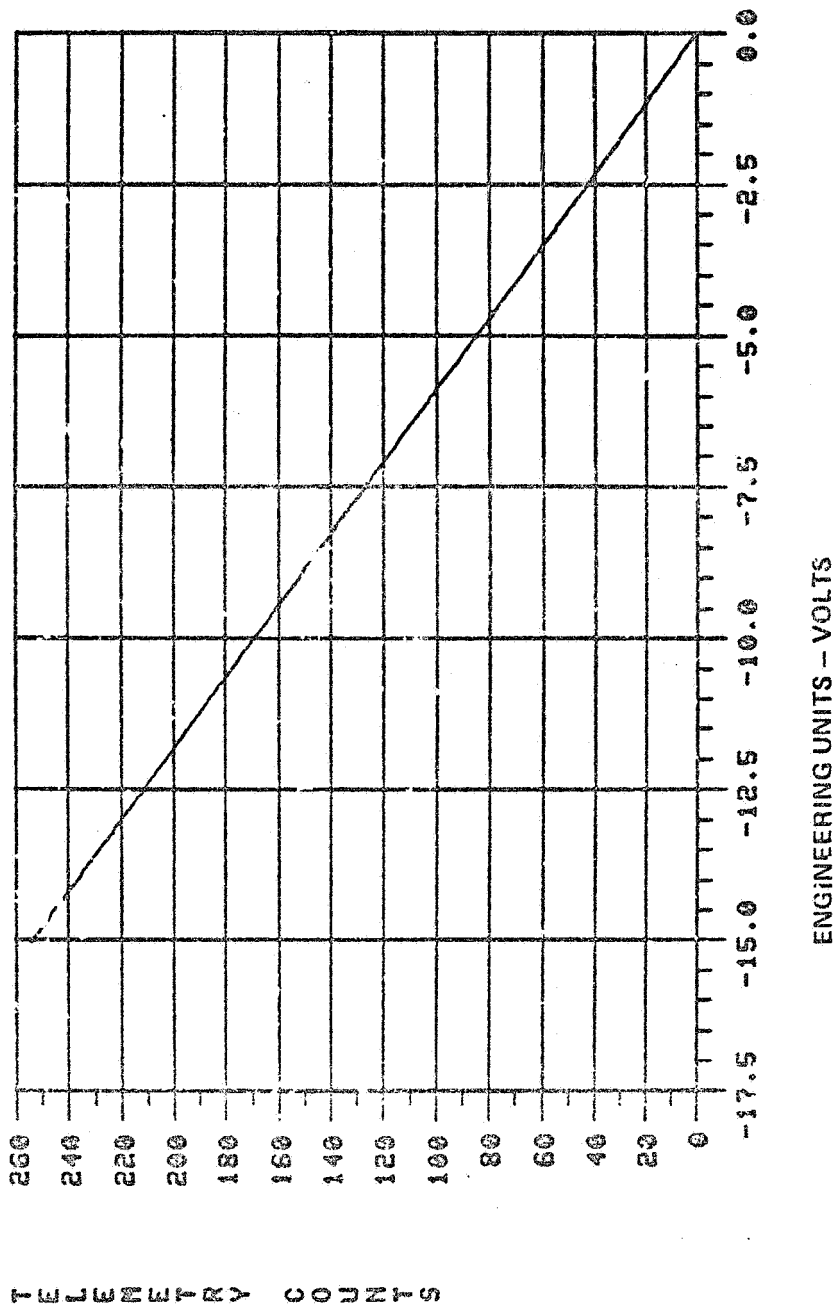
COUNTS VS ENGINEERING UNITS FOR TMSLC21



TELEMETRY COUNTS

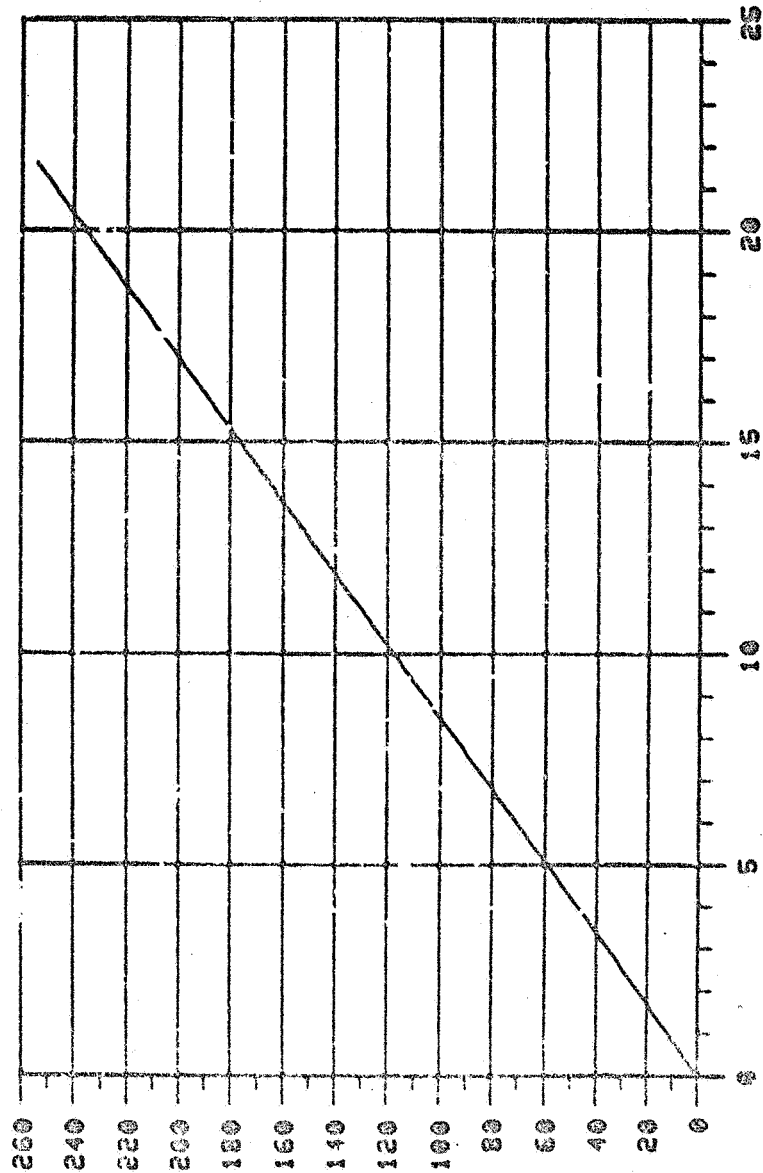
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COUNTS VS ENGINEERING UNITS FOR TRUX130N



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COUNTS VS ENGINEERING UNITS FOR TRUX18UF

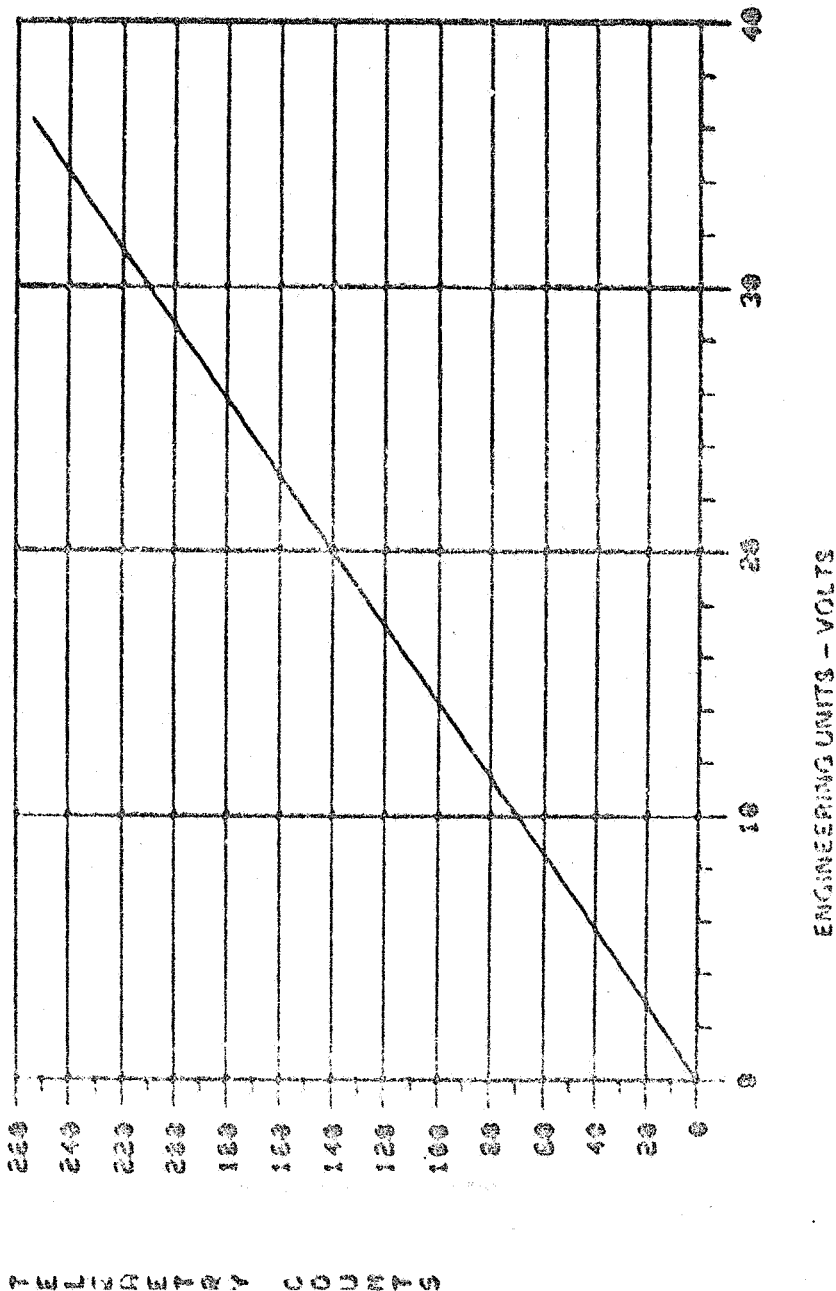


TELEMETRY COUNTS

ENGINEERING UNITS - VOLTS

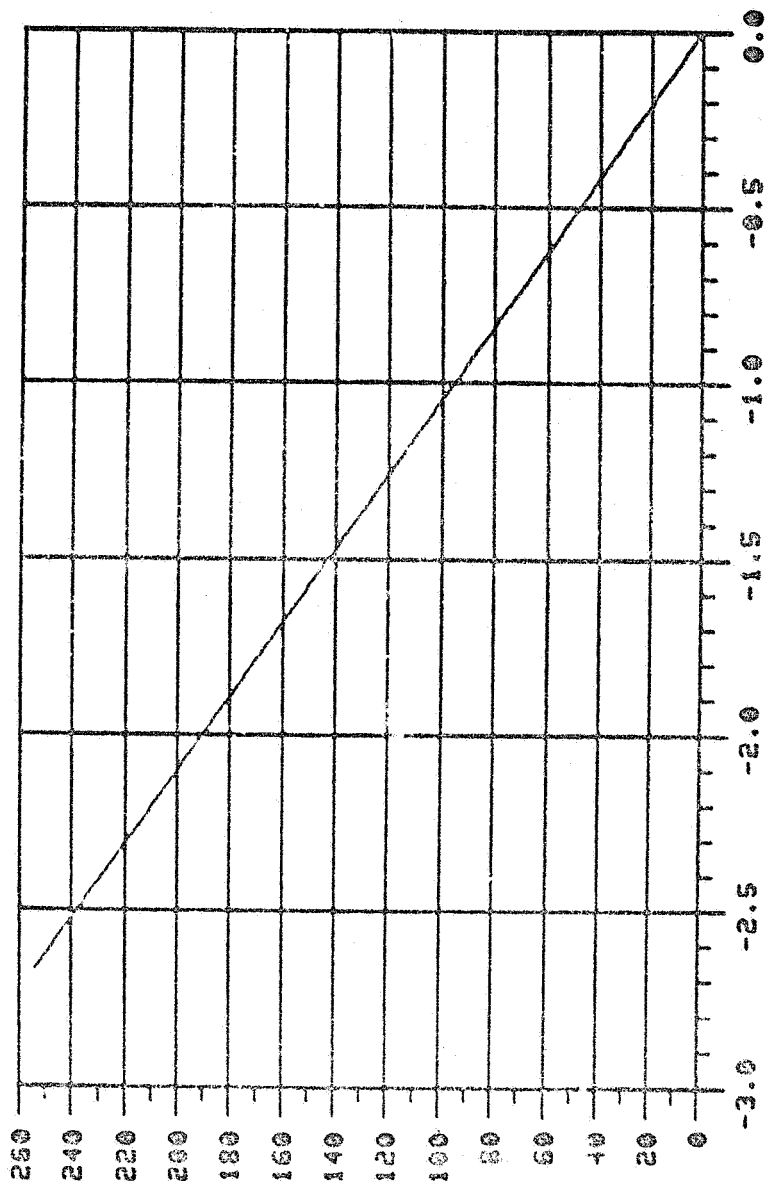
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CALCULATED VS ENGINEERING UNITS FOR TRAX300J



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COUNTS VS ENGINEERING UNITS FOR TRUX30V

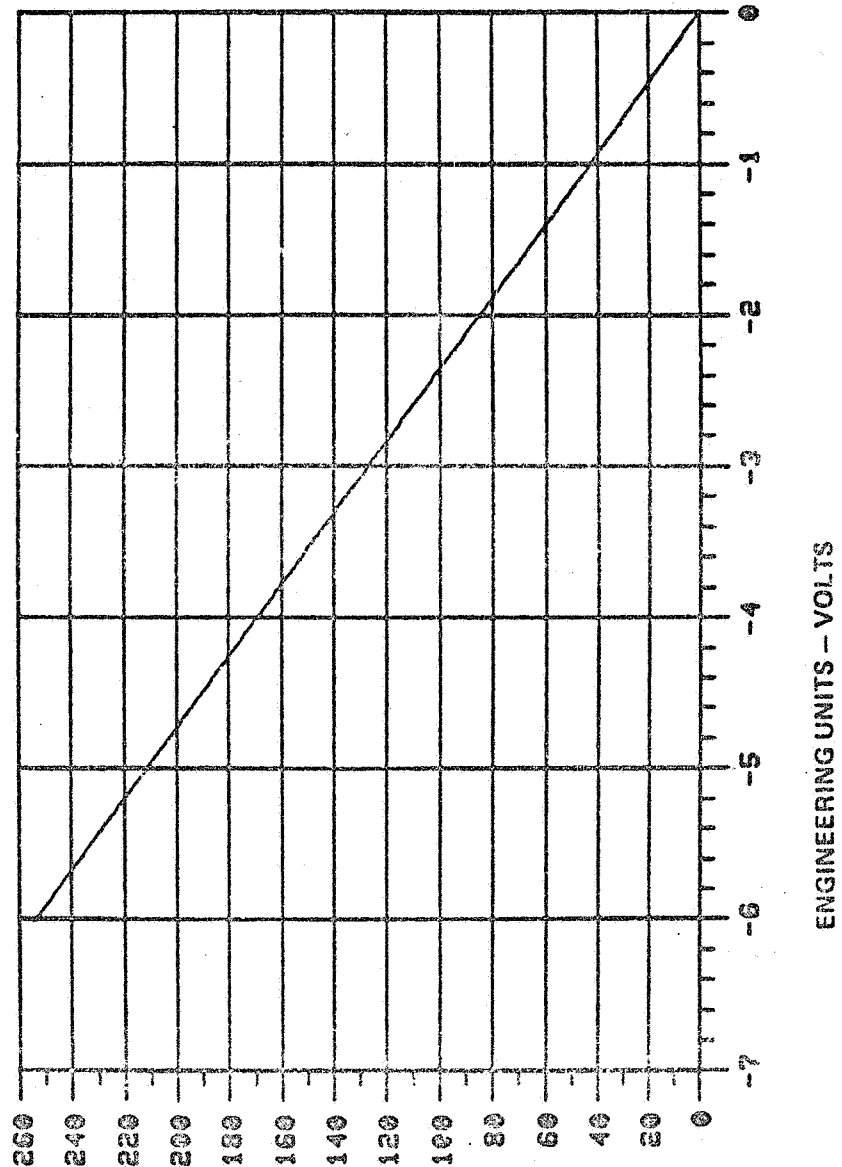


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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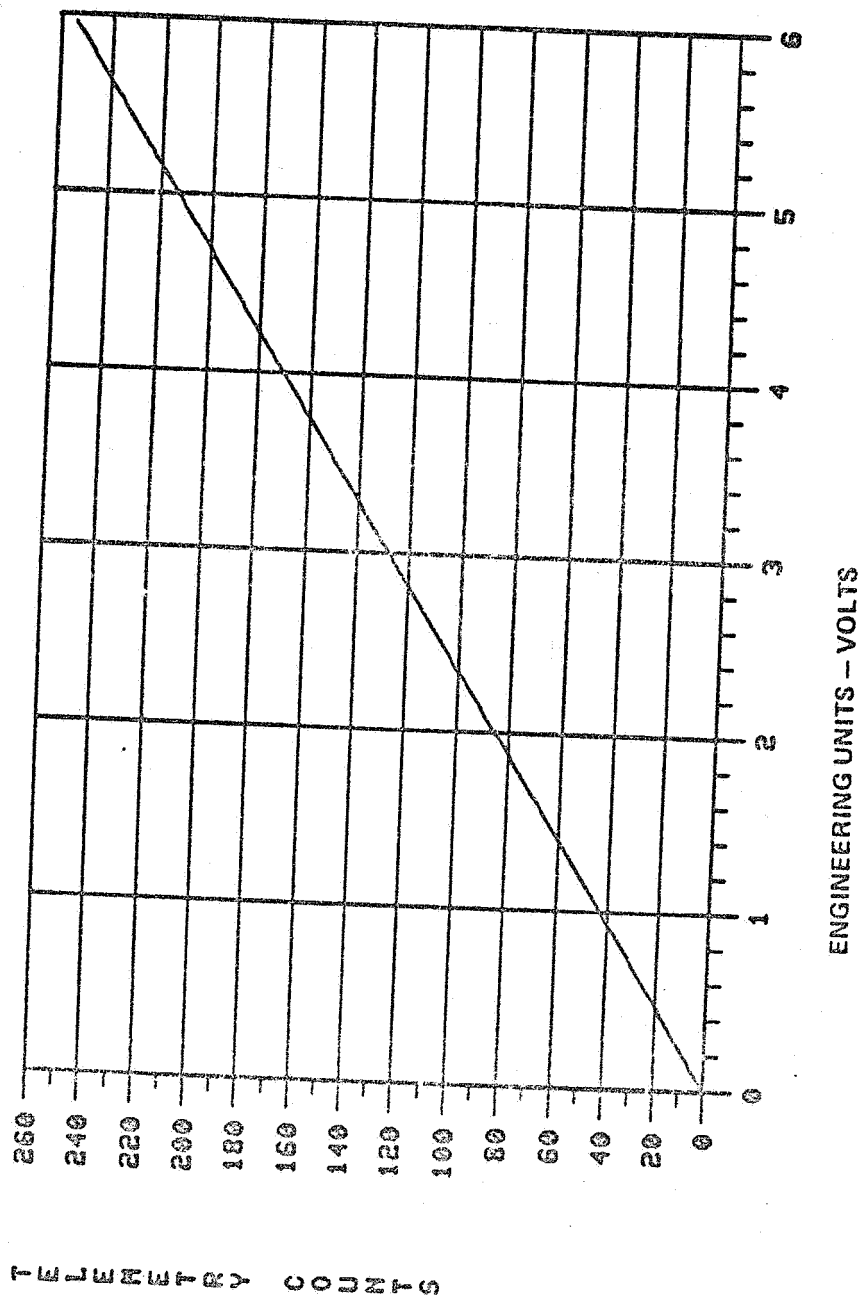
COUNTS VS ENGINEERING UNITS FOR TRUX50H



TRUX50H COUNTS

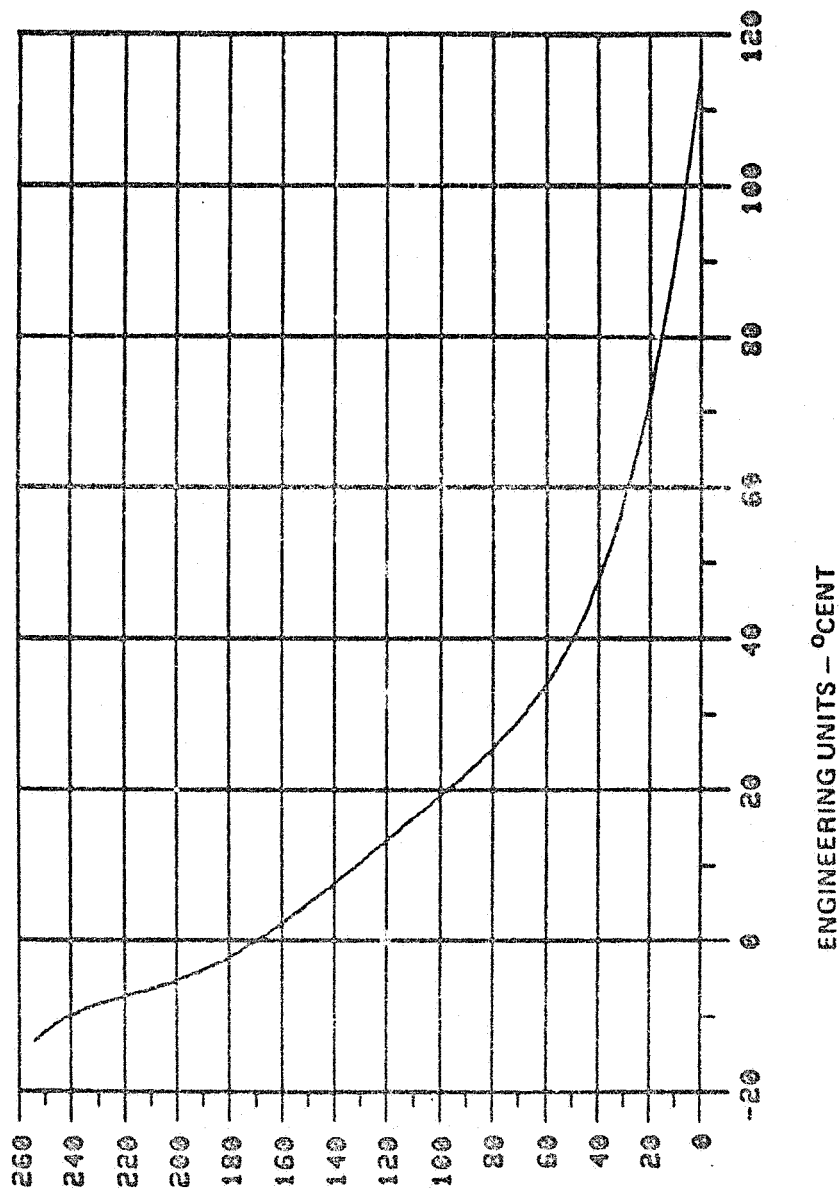
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COUNTS VS ENGINEERING UNITS FOR TRUXEUP



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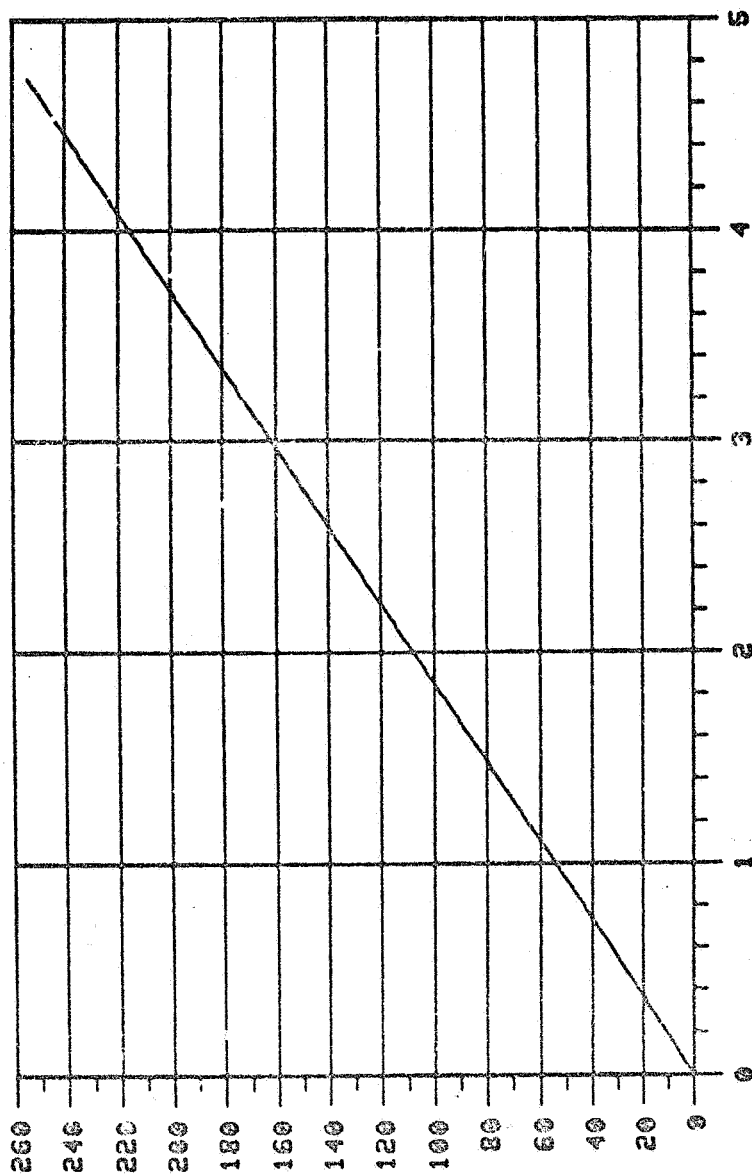
COUNTS VS ENGINEERING UNITS FOR TRUXET



TRUXET COUNTS

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COUNTS VS ENGINEERING UNITS FOR THUXI



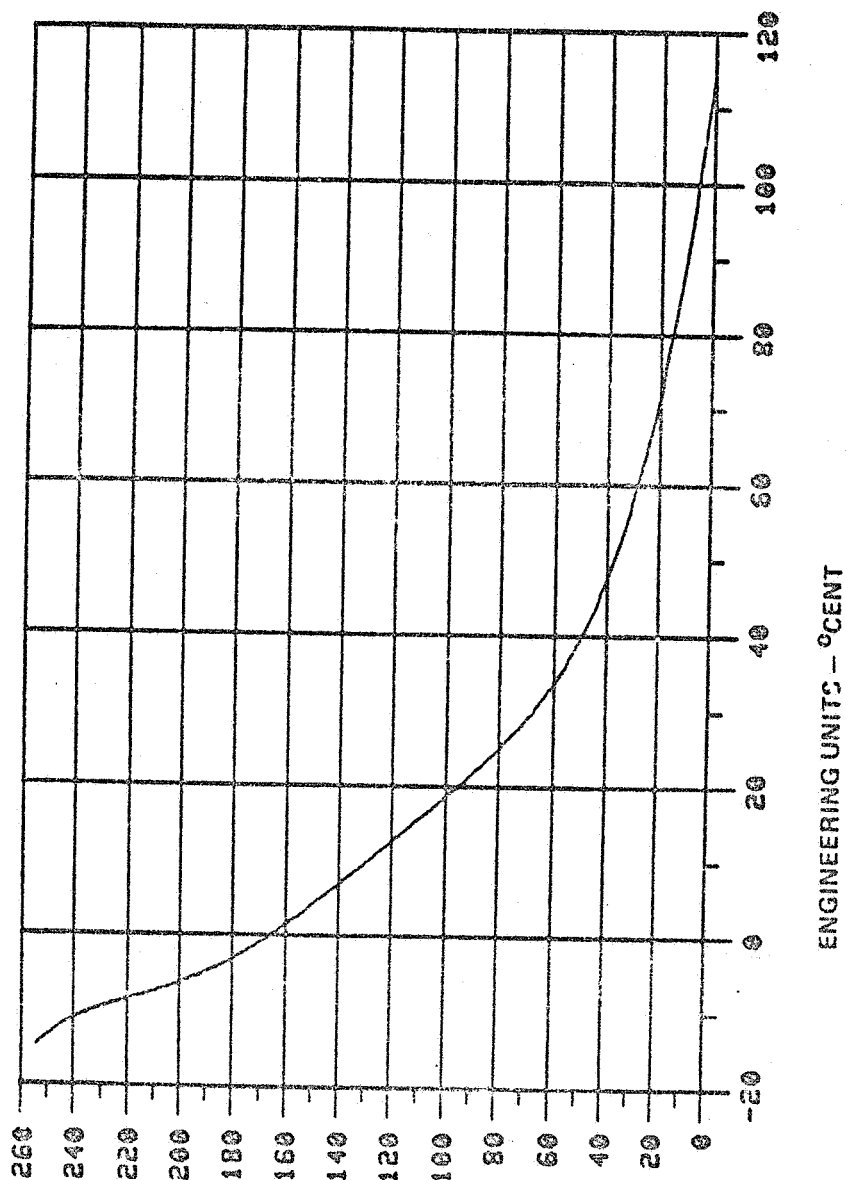
TELEMETRY COUNTS

ENGINEERING UNITS - AMPS

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COUNTS VS ENGINEERING UNITS FOR TRUXPST

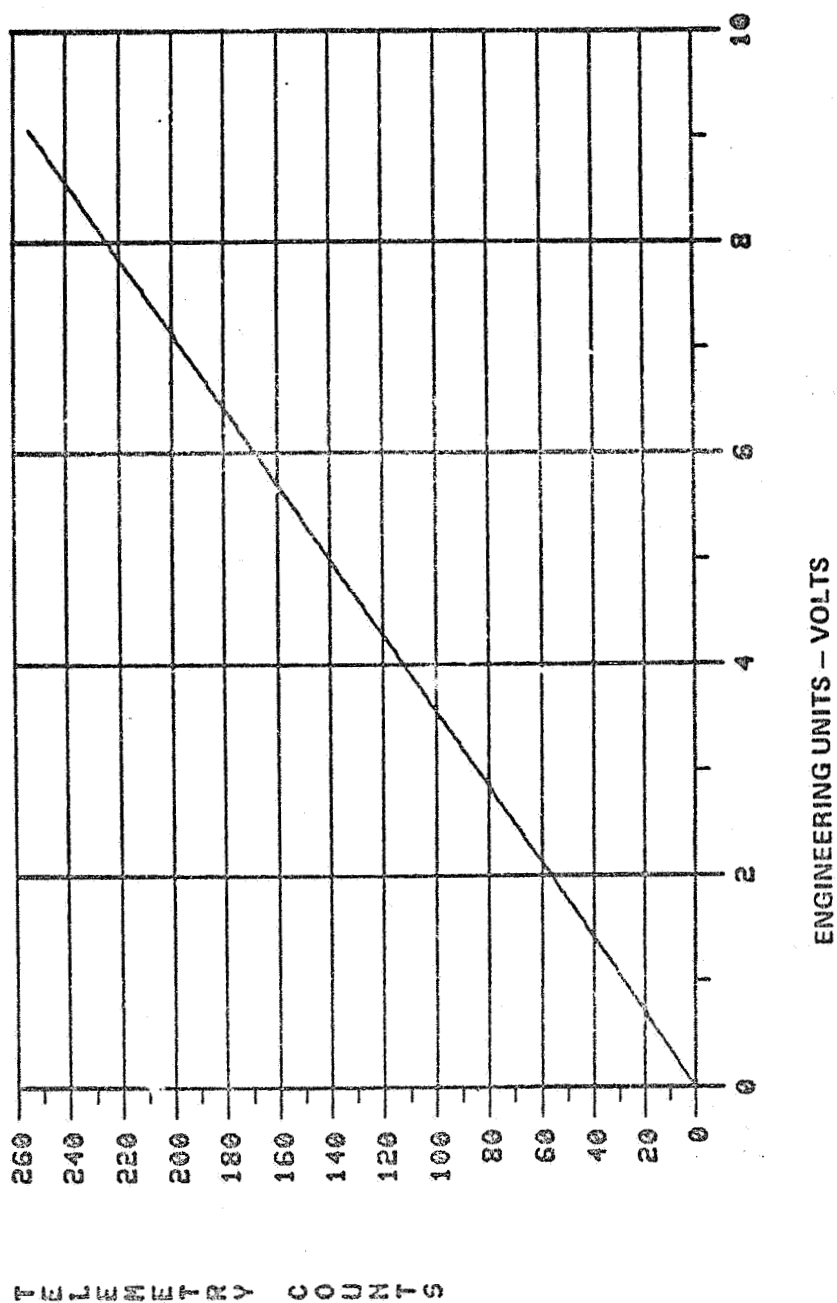


TELEMETRY COUNTS

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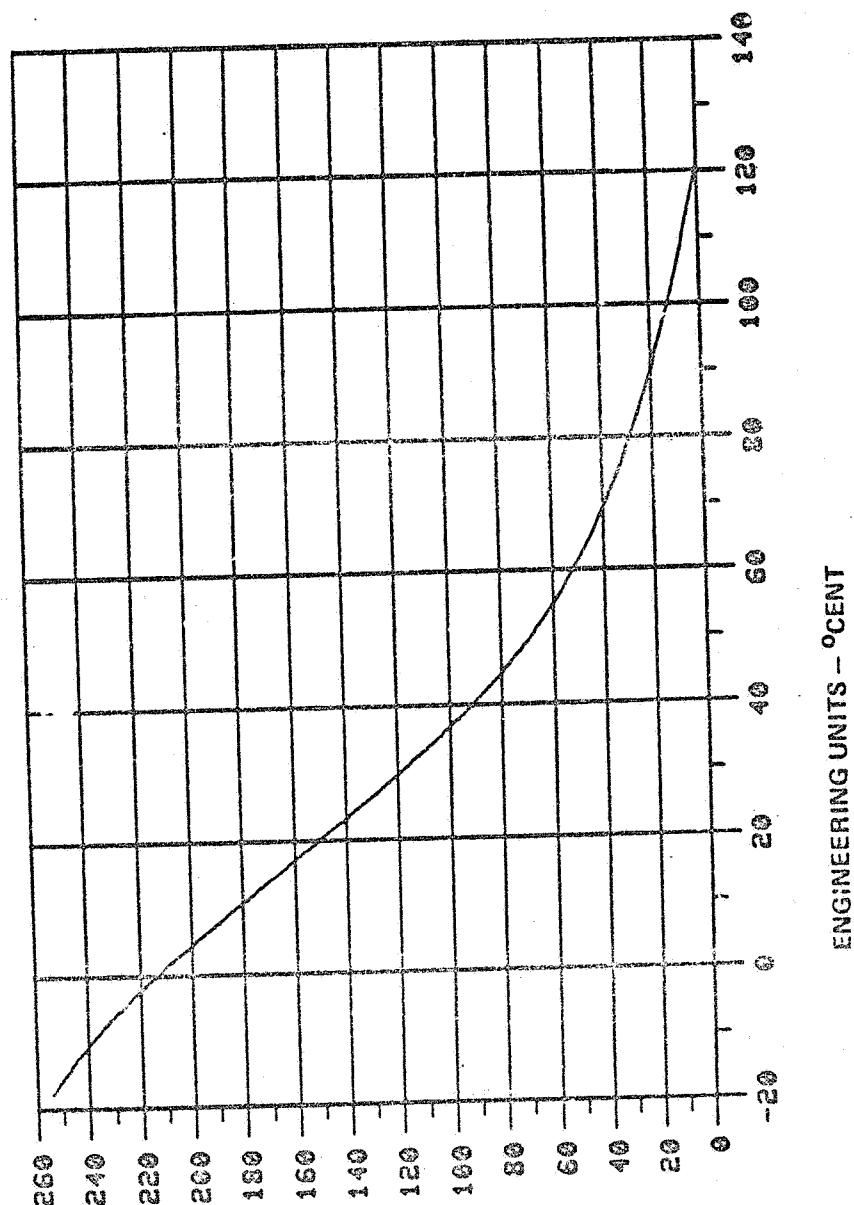
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COUNTS VS ENGINEERING UNITS FOR TMU090



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COUNTS VS ENGINEERING UNITS FOR TPMT

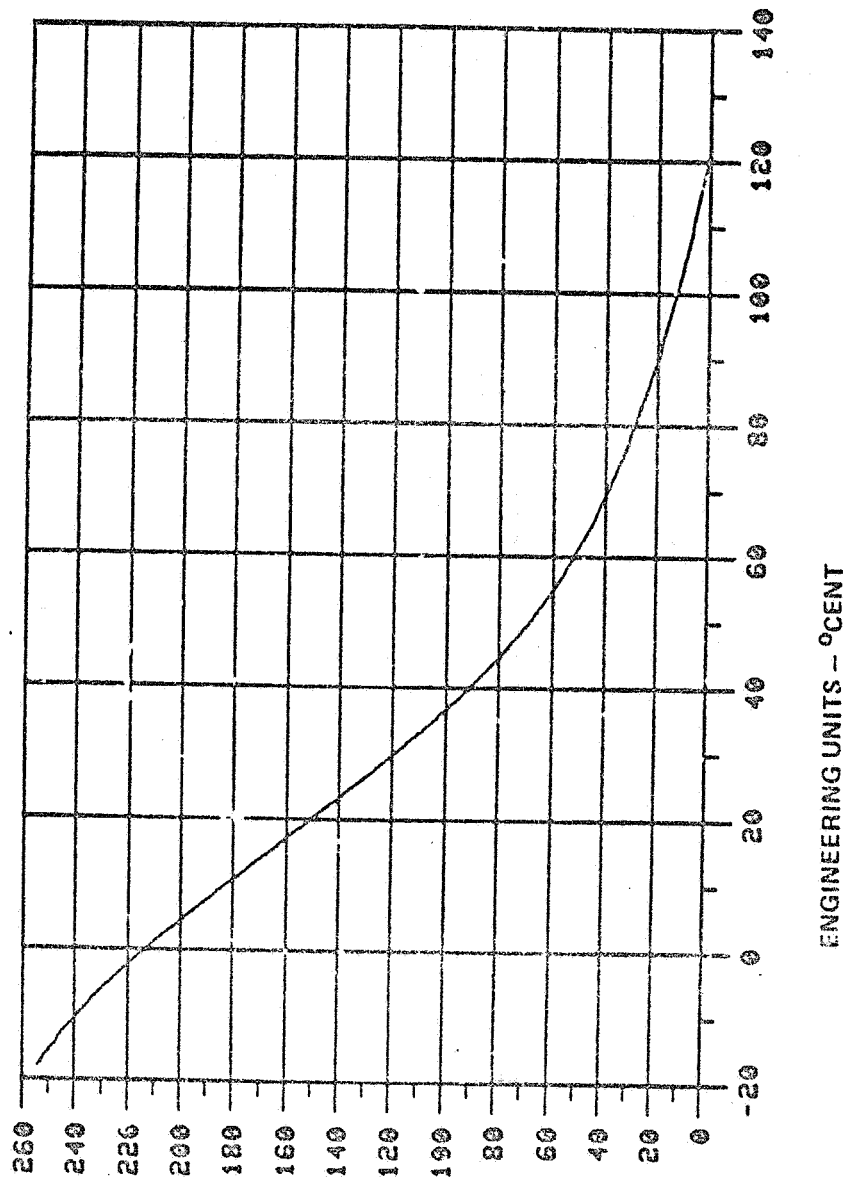


TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR TPHT

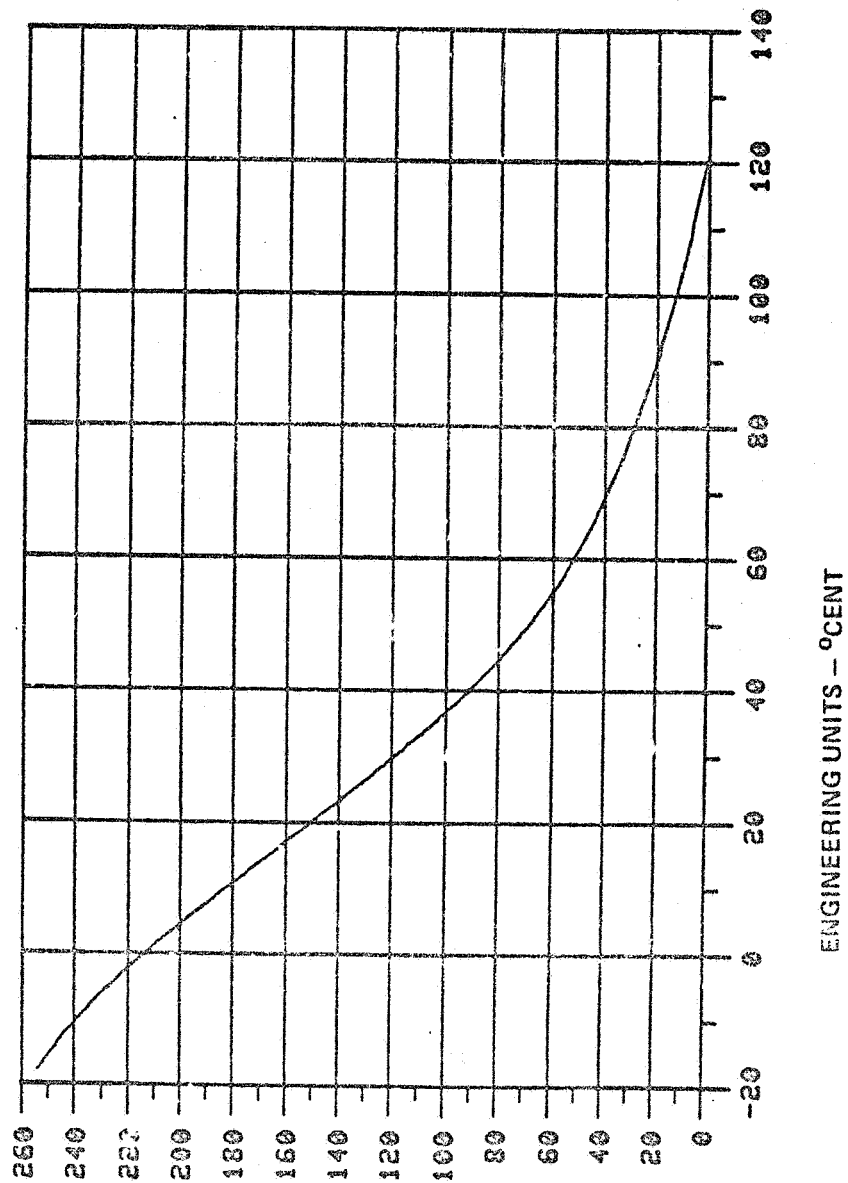


TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR TPST

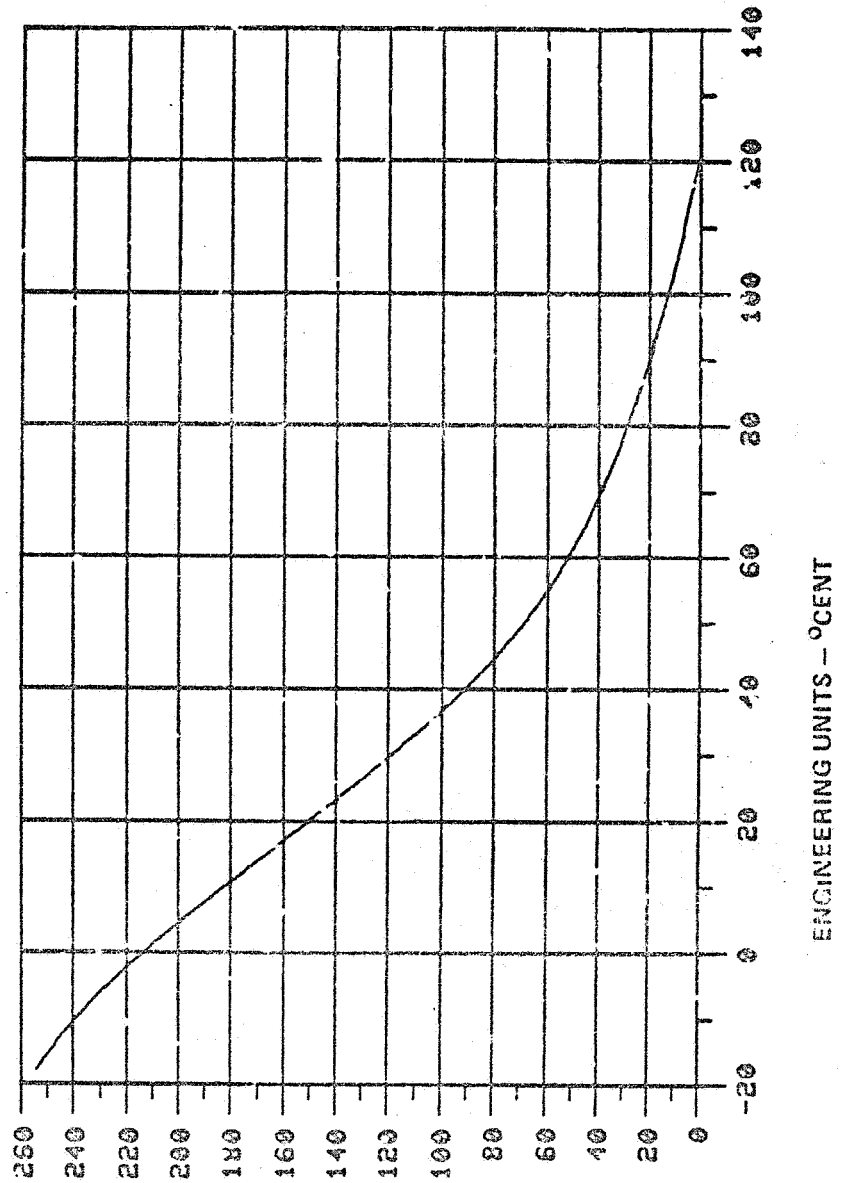


TELEMETRY COUNTS

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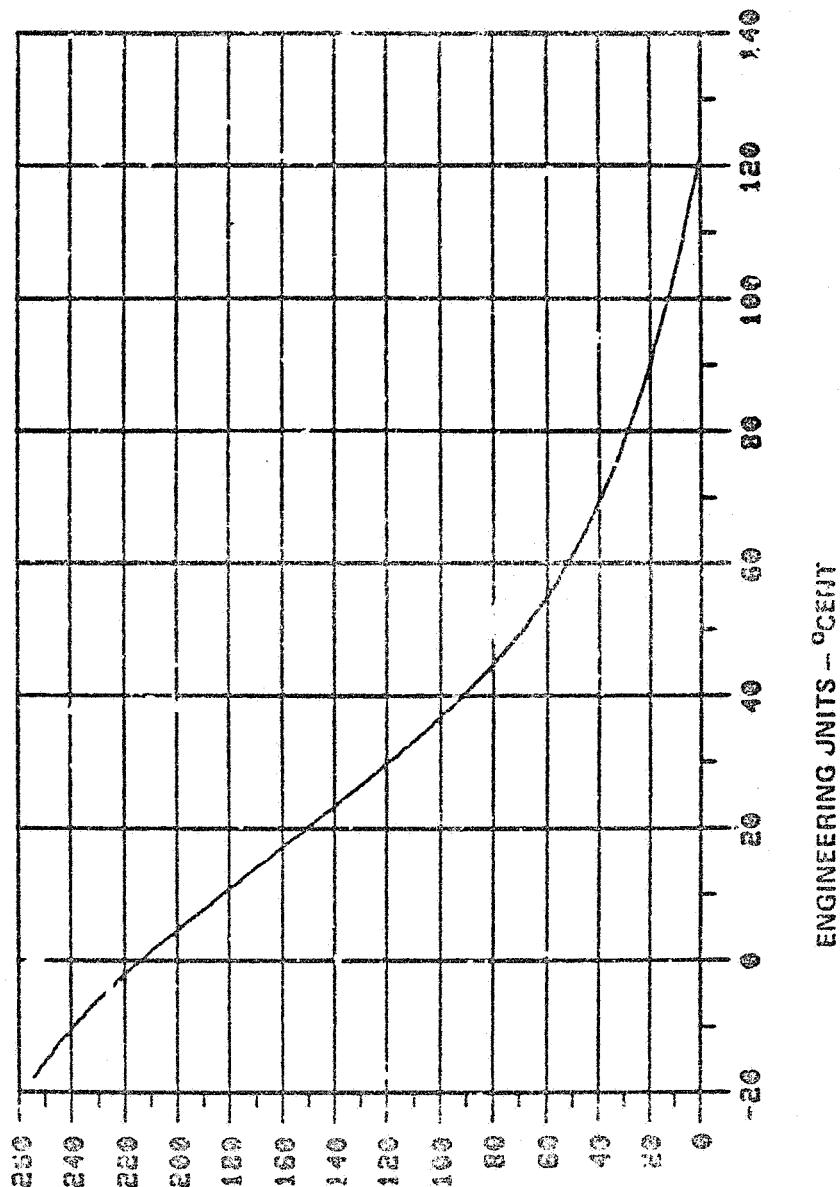
COUNTS US ENGINEERING UNITS FOR TRFINT



FEBRUARY COUNTS

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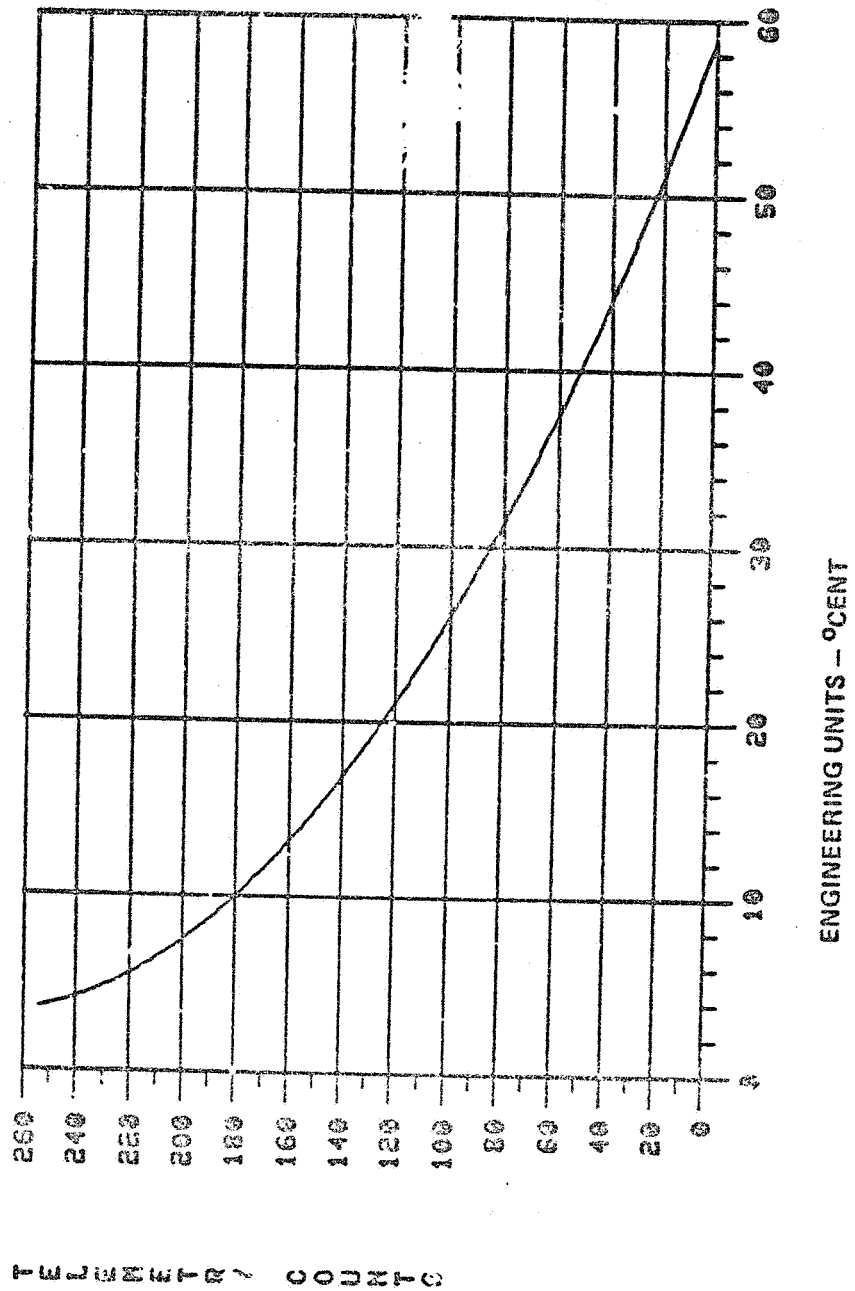
COUNTS VS ENGINEERING UNITS FOR TROT



TELEMETRY COUNTS

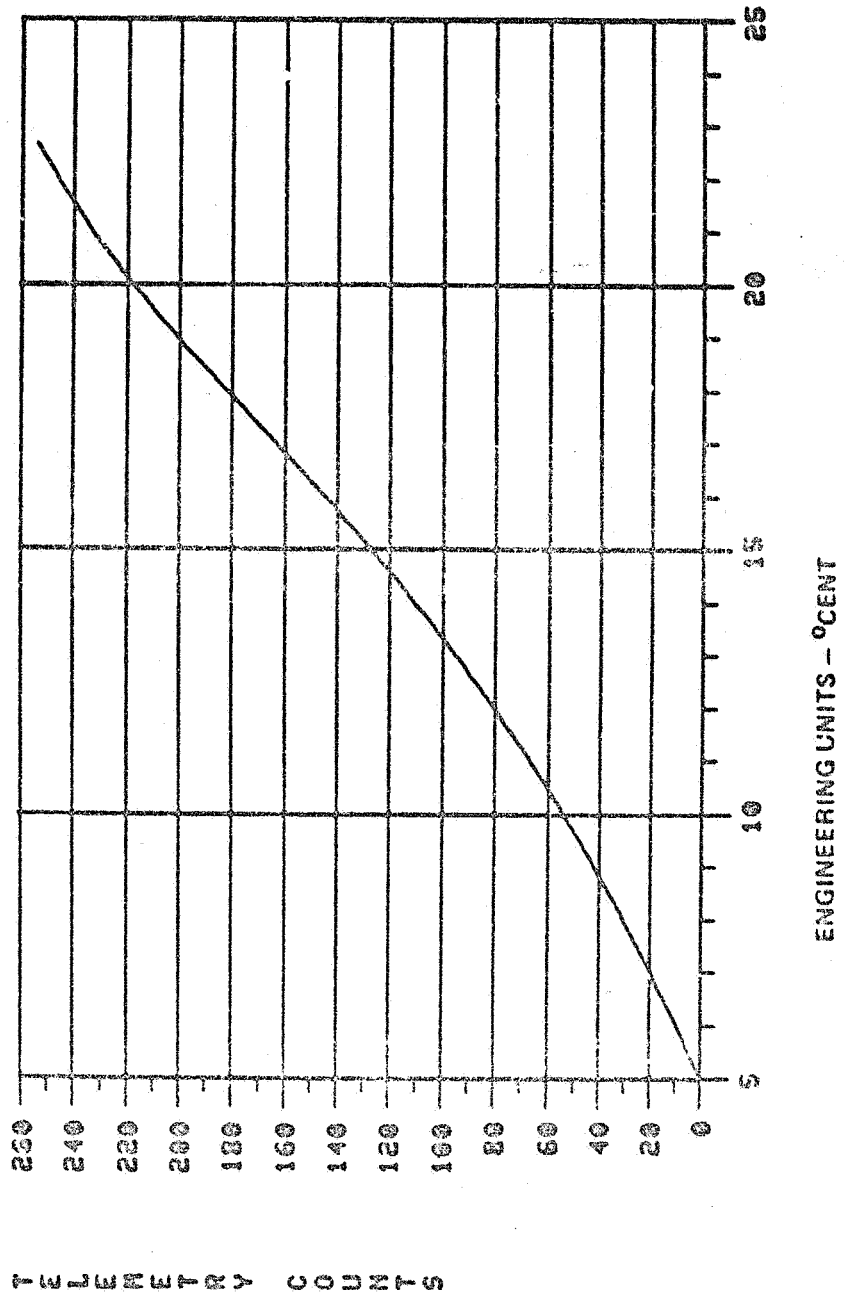
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COUNTS VS ENGINEERING UNITS FOR TSAHT



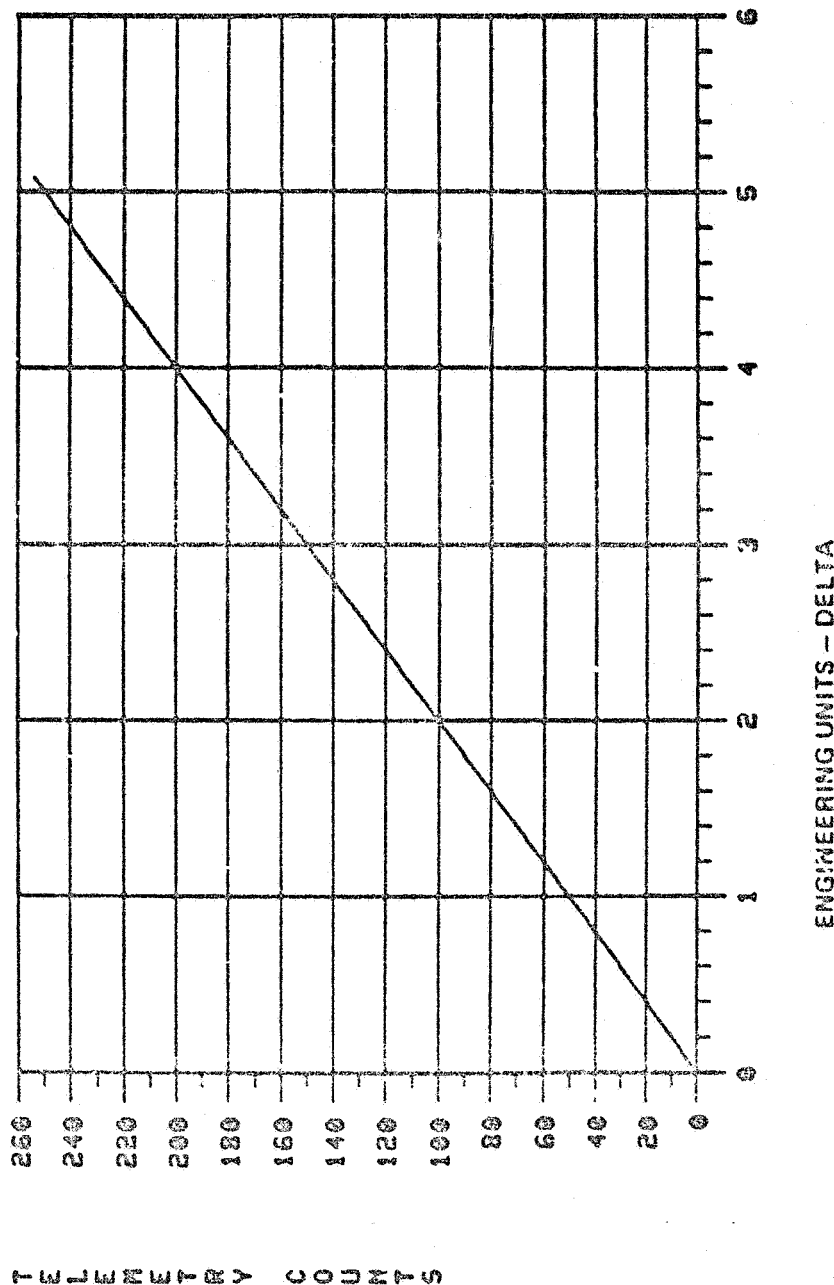
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COUNTS VS ENGINEERING UNITS FOR TSIFPT



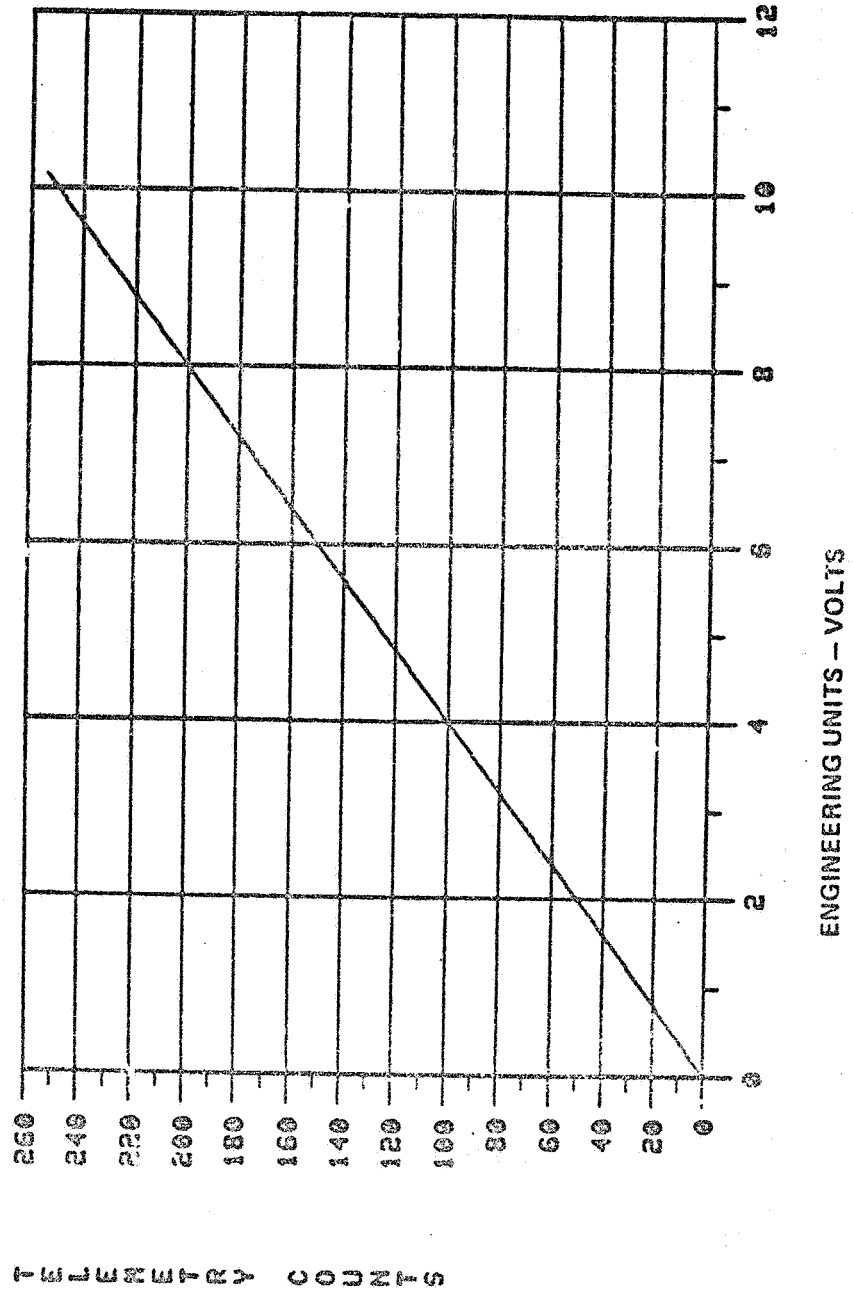
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COUNTS VS ENGINEERING UNITS FOR TSL115U



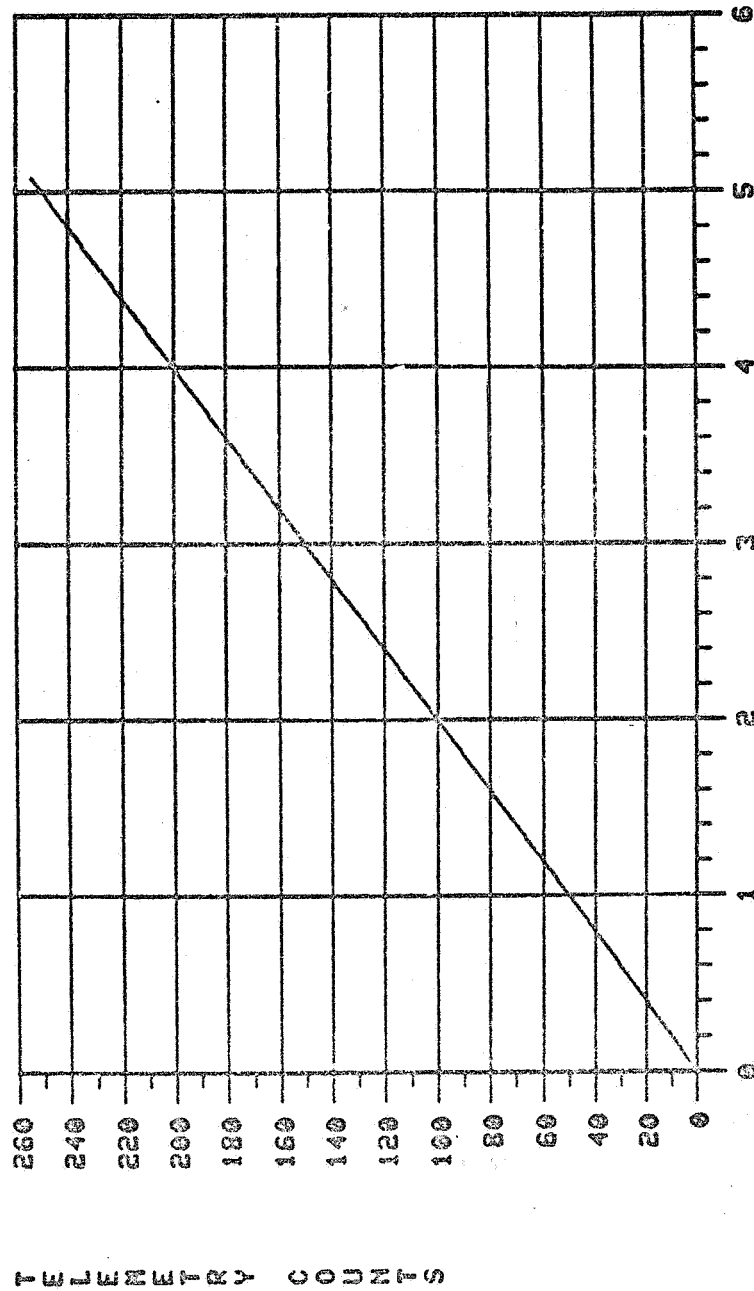
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COUNTS VS ENGINEERING UNITS FOR TSL15UP



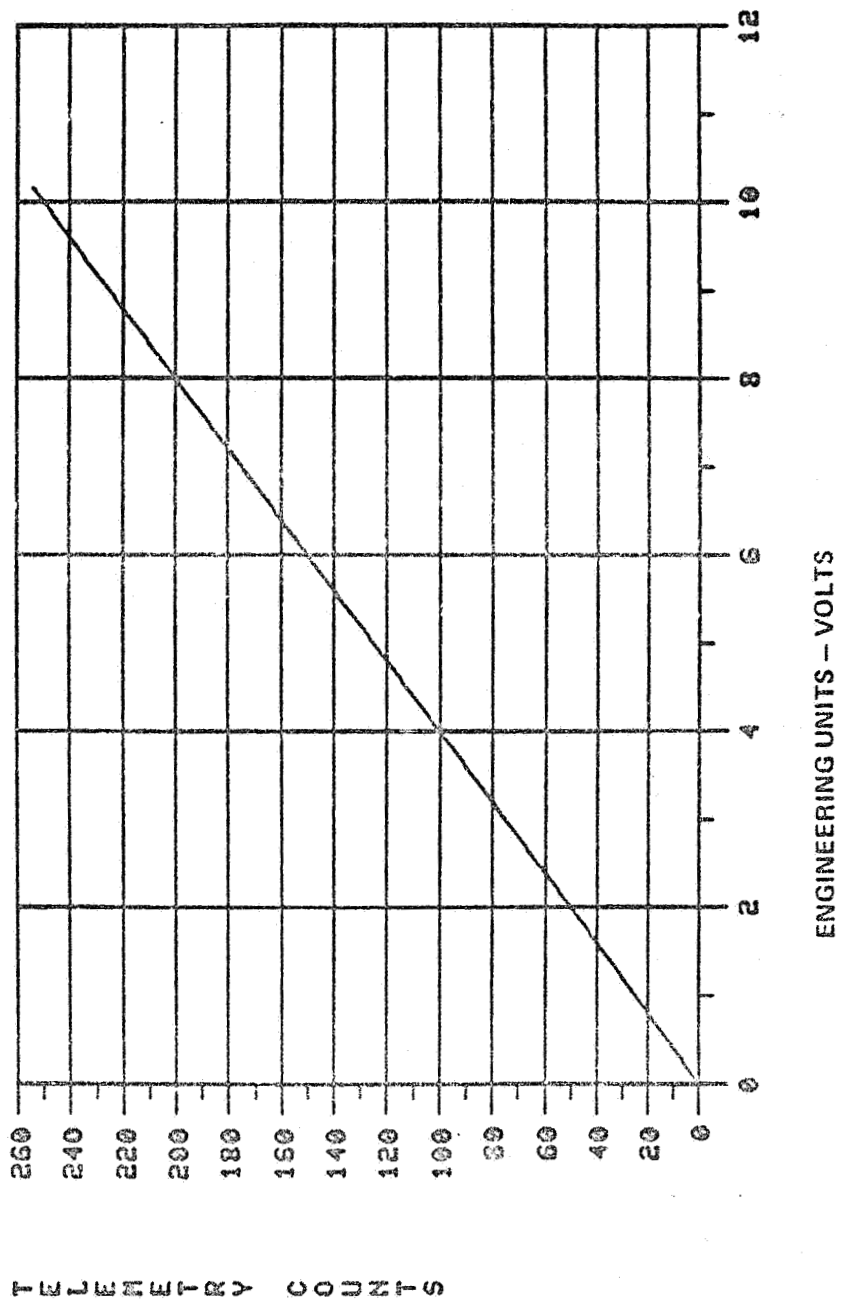
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COUNTS VS ENGINEERING UNITS FOR TSL215U



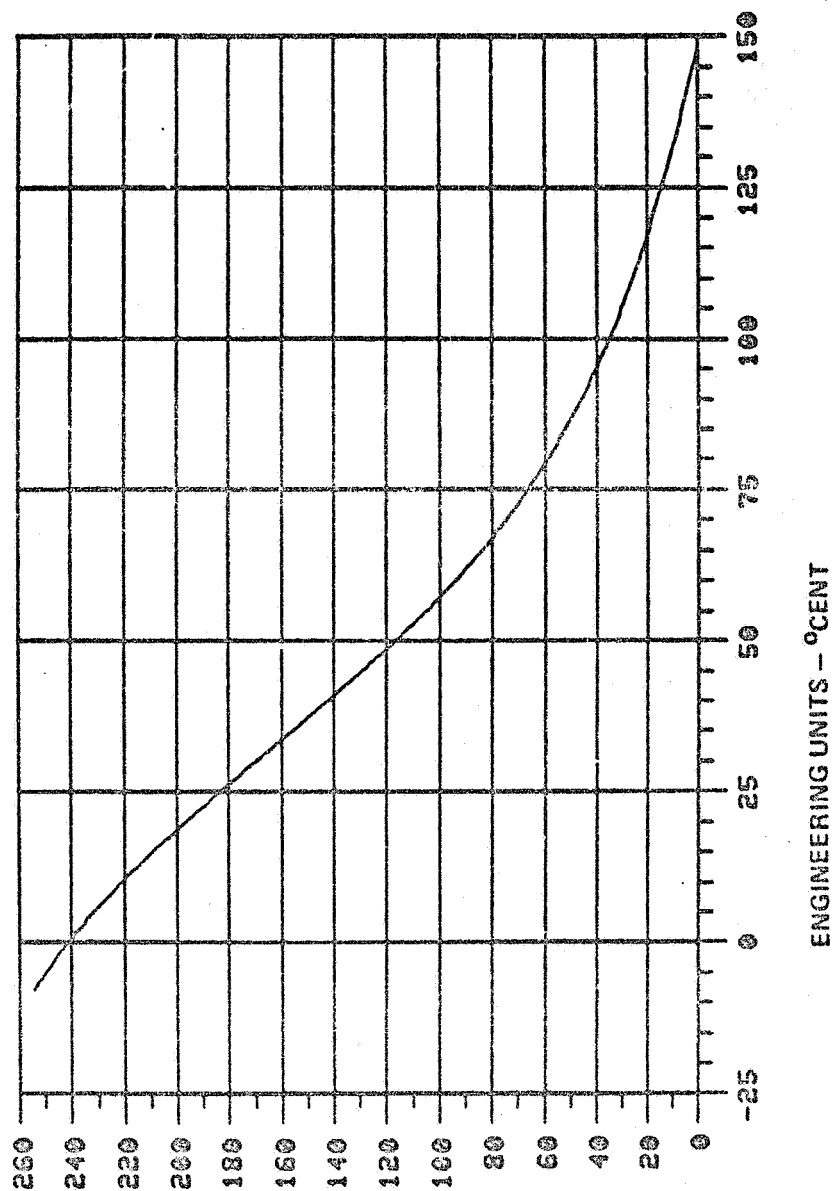
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COUNTS VS ENGINEERING UNITS FOR TSL25UP



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COUNTS VS ENGINEERING UNITS FOR TSLCT

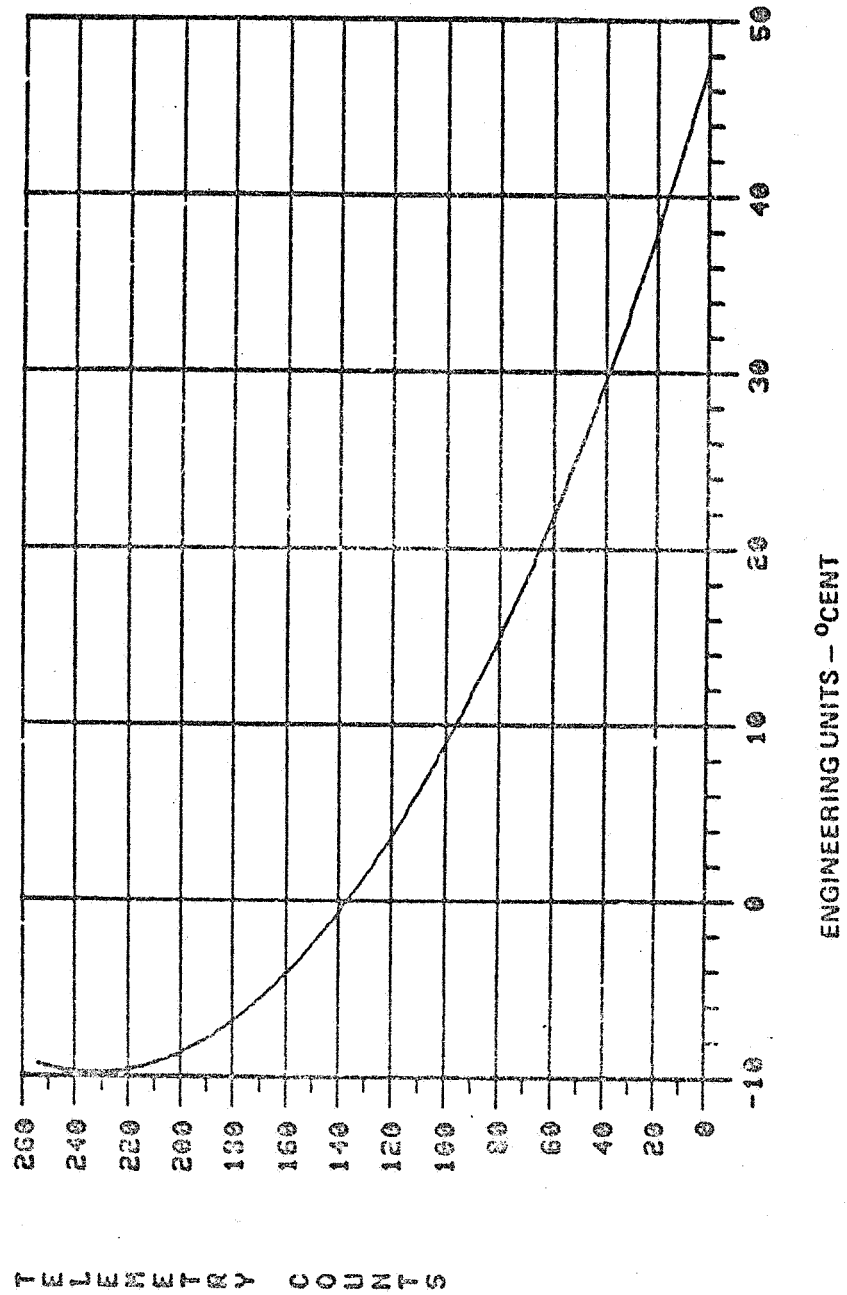


TELEMETRY COUNTS

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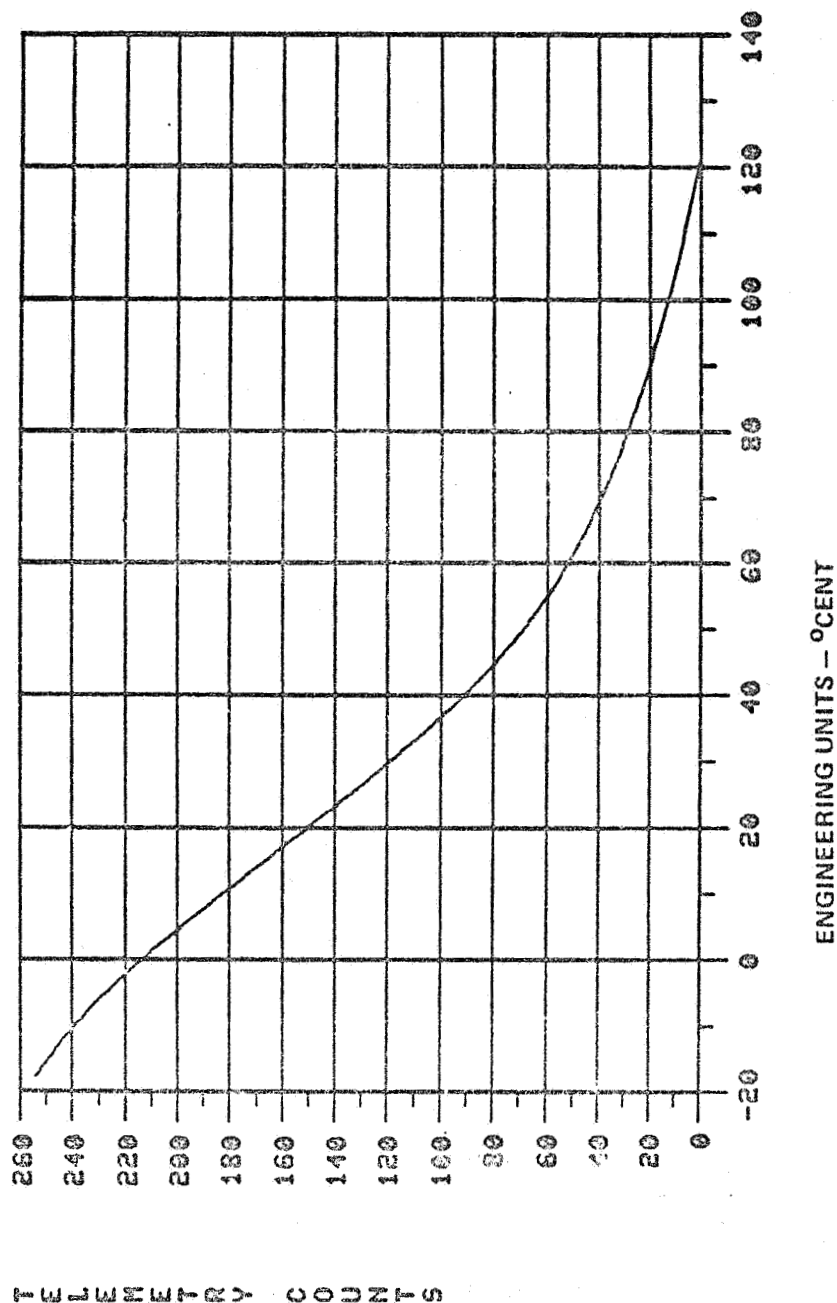
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COUNTS VS ENGINEERING UNITS FOR TSAET



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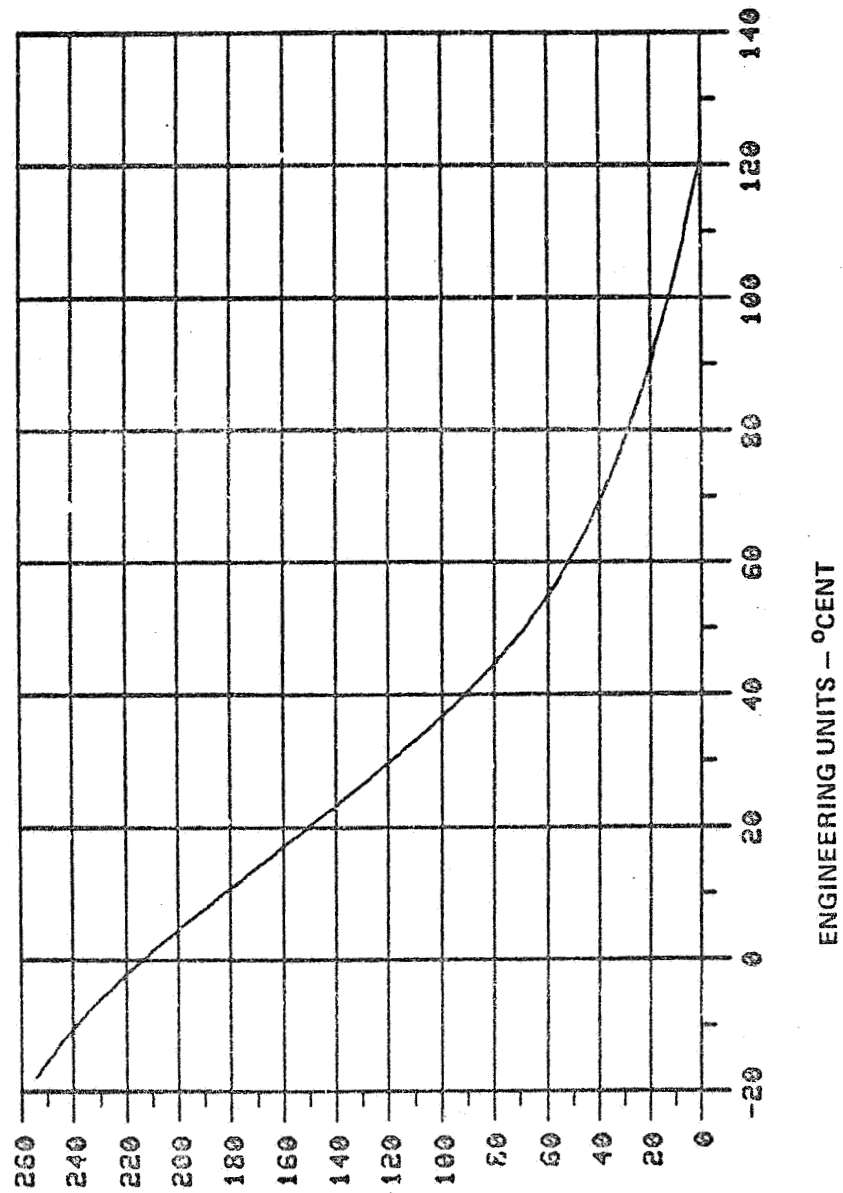
COUNTS VS ENGINEERING UNITS FOR TSMRT



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COUNTS VS ENGINEERING UNITS FOR TSNT

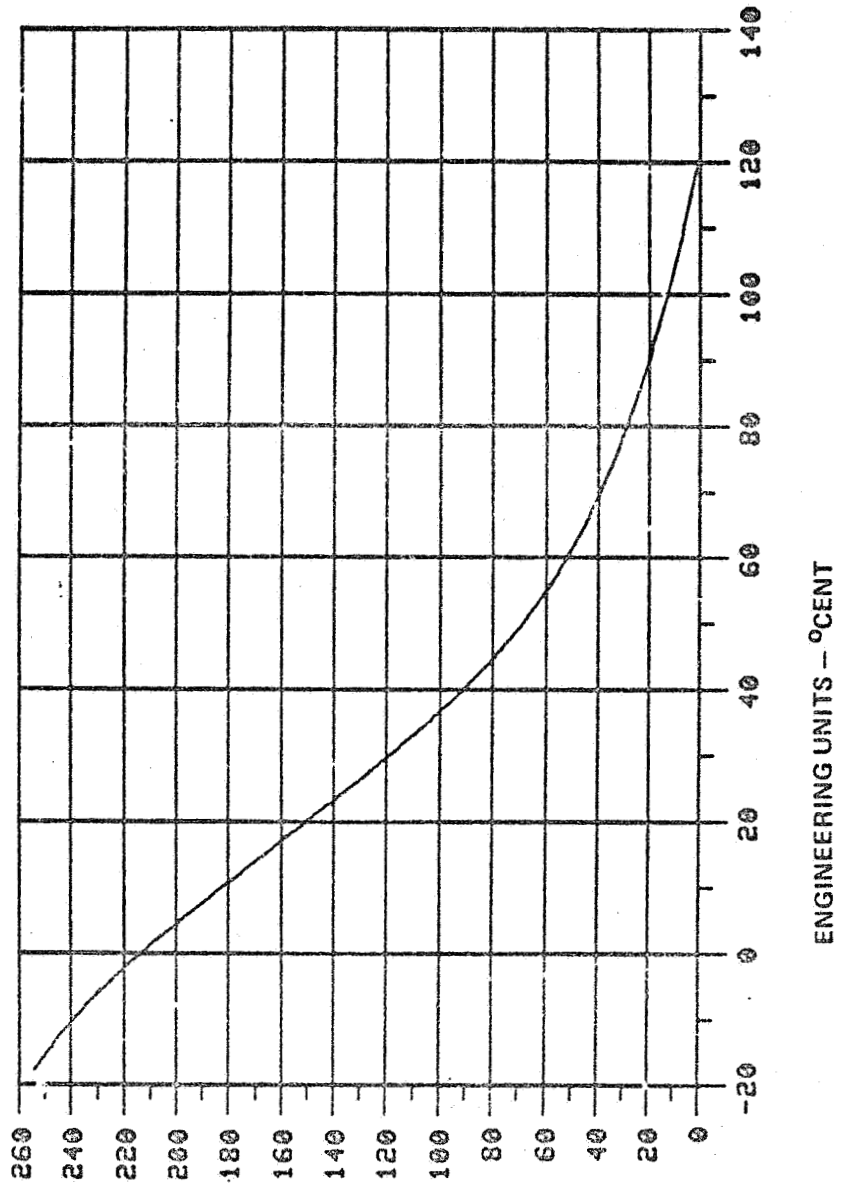


TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR TSST

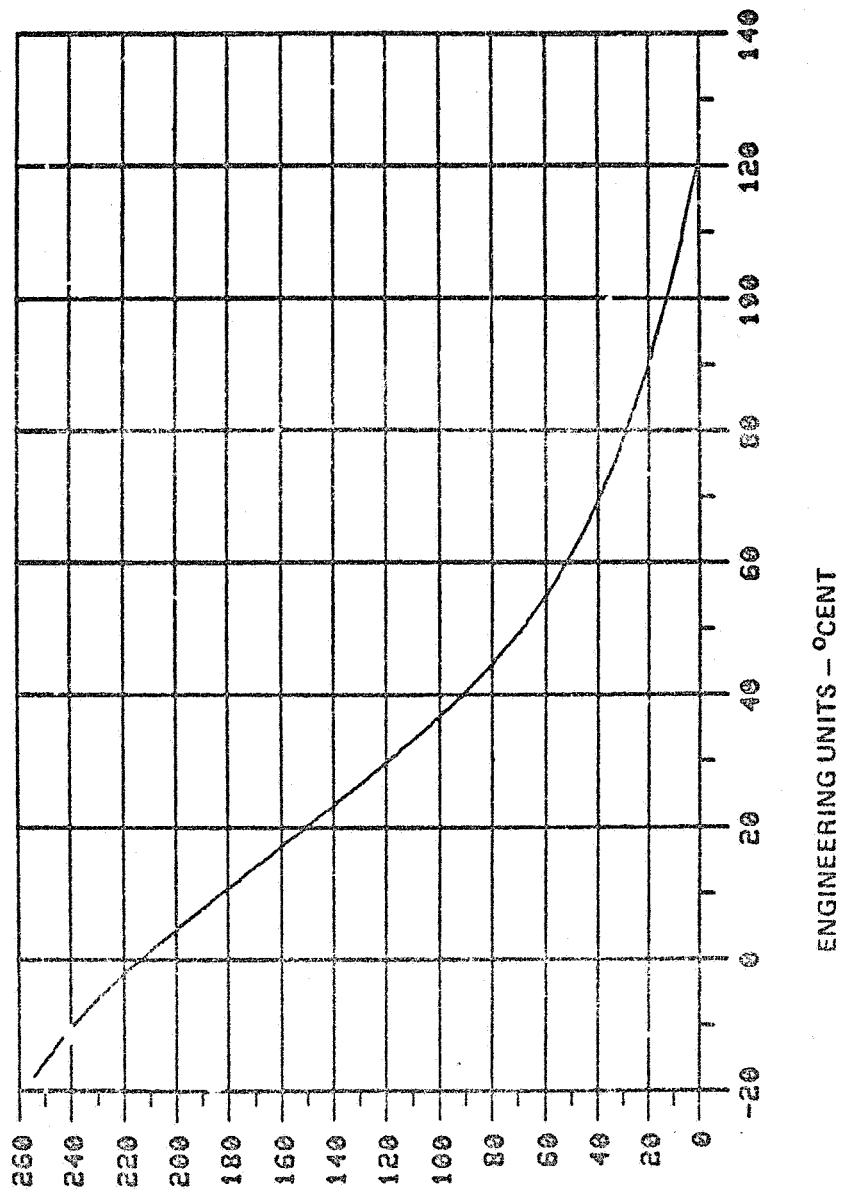


TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR TTBPT

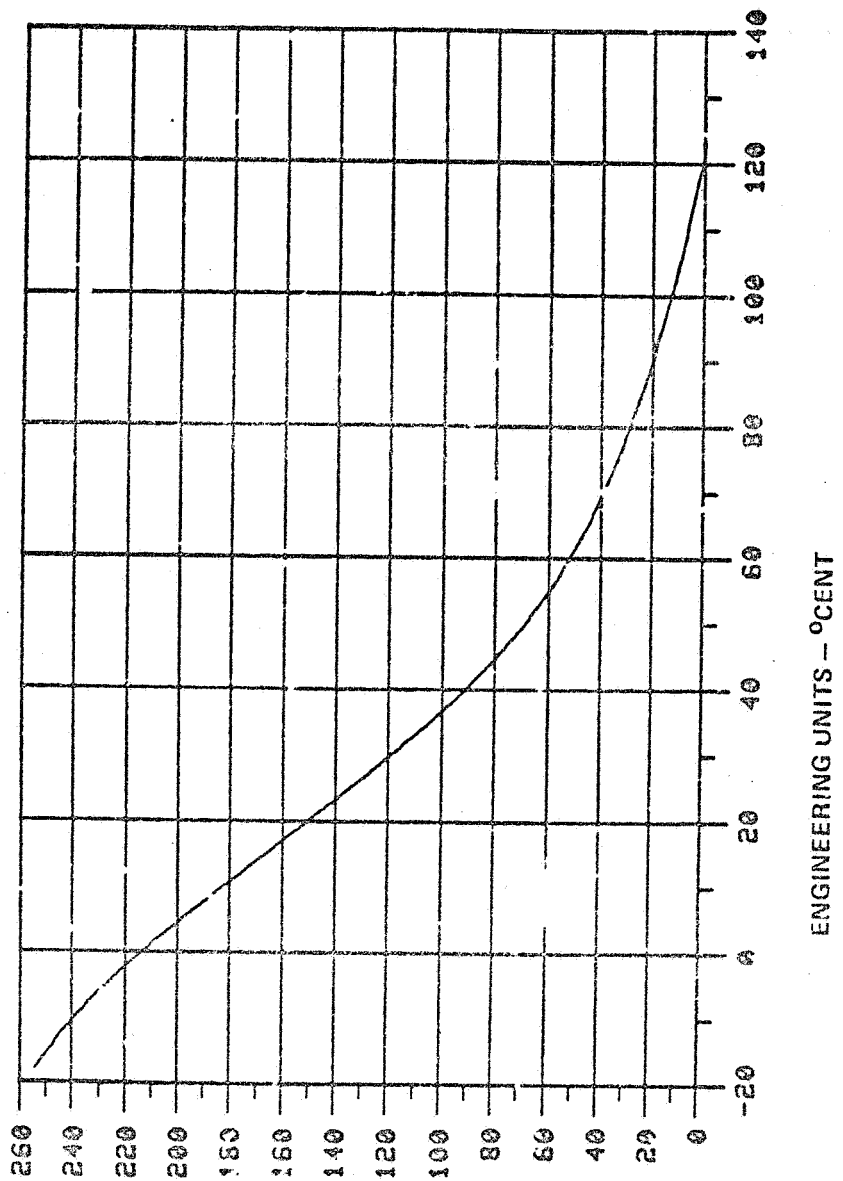


TELEMETRY COUNTS

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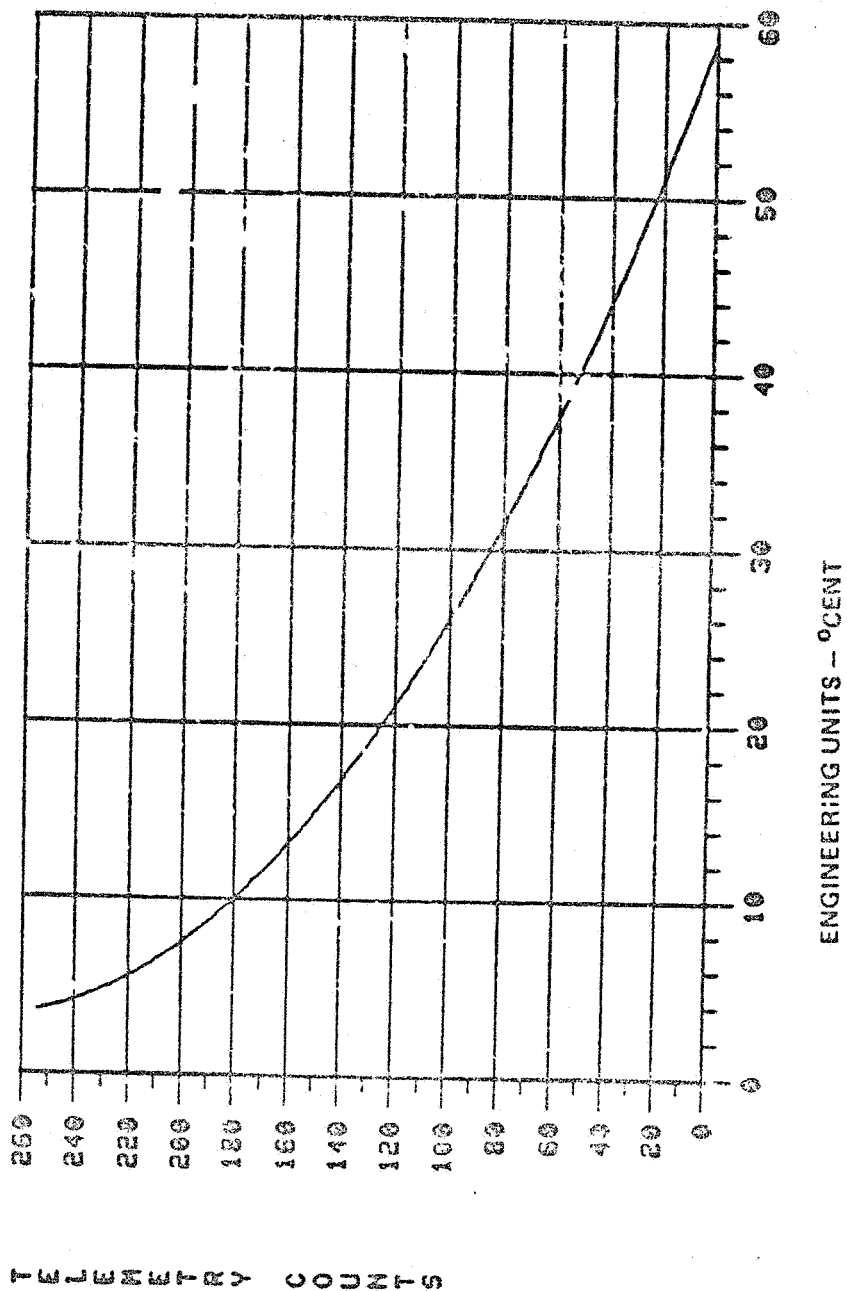
COUNTS VS ENGINEERING UNITS FOR TTHT



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR TUPENT



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APPENDIX A.15

GLOBAL POSITIONING SYSTEM (GPS)

TELEMETRY CALIBRATION DATA

The calibration curve coefficients for each telemetry point are controlled in the data base. They are listed along with the unit section number where the sensor is located. Tables showing the coefficients may be obtained from the data base administrator. The tables show telemetry volts (counts) vs. engineering units.

LSD-WFC-263

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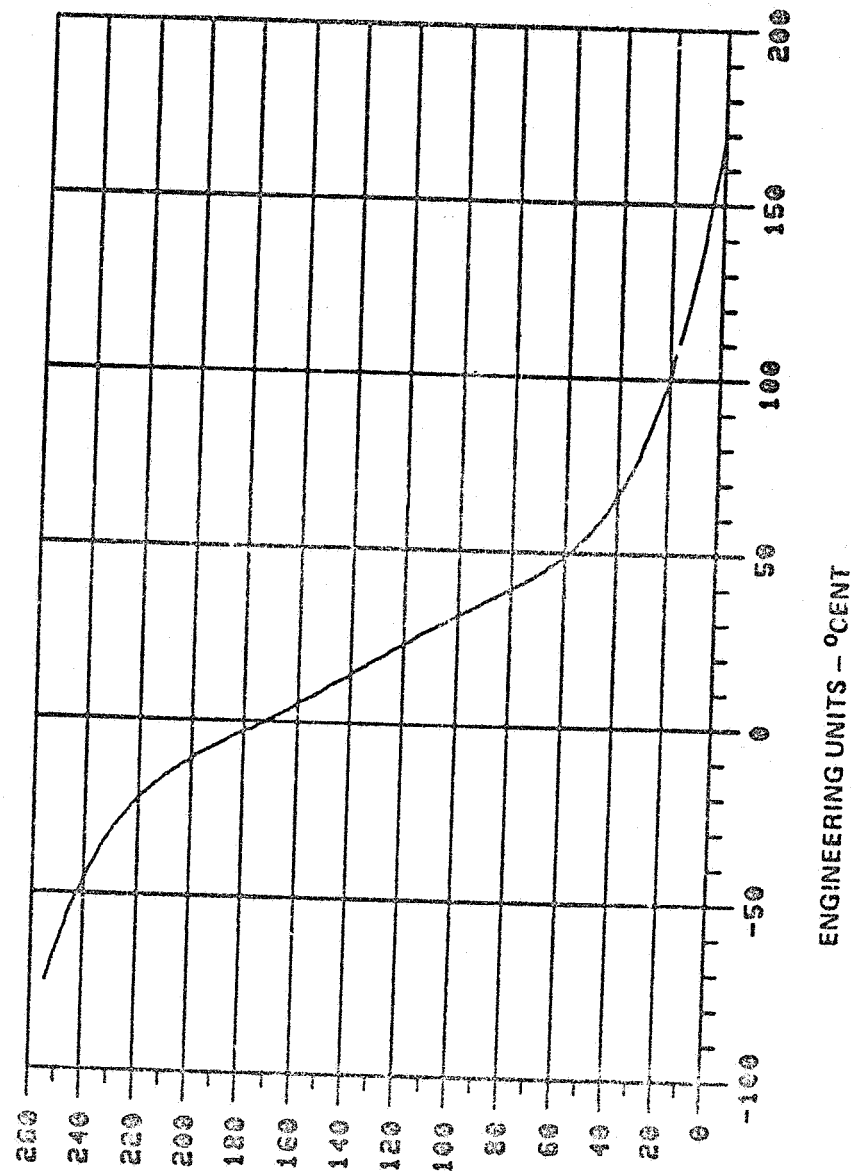
Appendix A
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*****
:
: GPS CONV. DEF.
:
: *****
:
: GPS POINT DEF.
: TIME OF CURRENT FIRST GRID POINT FOR GPS INTERPOLATION
POINT GALOGMDT ; R/PA ANALOG MODULE TEMP in deg. centigrade
COEFF GALOGMDT , .16804E+3, -.45905E+1, .69878E-1, -.55932E-3, .21445E-5, -.31649E-8
POINT GCURRCMD ; R/PA PWR SUPPLY IN CMD MODE in
COEFF GCURRCMD , 0,0.01
POINT GCURRIN ; R/PA PWR SUPP INPUT CURRENT in
COEFF GCURRIN , 0,0.01
POINT GCURRLDE ; R/PA PWR SUPPLY IN LOAD MODE in
COEFF GCURRLDE , 0,0.01
POINT GCURRNDL ; R/PA PWR SUPPLY IN NAV DUAL CH. in
COEFF GCURRNDL , 0,0.01
POINT GCURRNSL ; R/PA PWR SUPPLY IN NAV SNGL CH. in
COEFF GCURRNSL , 0,0.01
POINT GCURRPRO ; R/PA PWR SUPPLY IN PROP MODE in
COEFF GCURRPRO , 0,0.01
POINT GCURRSBY ; R/PA PWR SUPPLY IN STBY in
COEFF GCURRSBY , 0,0.01
POINT GMPWR12V ; R/PA PWR SUPP +12V (ANALOG) in volts
COEFF GMPWR12V , 0,0.064
POINT GMPWR5V ; R/PA PWR SUPP +5V in volts
COEFF GMPWR5V , 0,0.032
POINT GOSCCAST ; EXTERNAL OSC CASE TEMP in deg. centigrade
COEFF GOSCCAST , .16804E+3, -.45905E+1, .69878E-1, -.55932E-3, .21445E-5, -.31649E-8
POINT GOSCOVNT ; OSCILLATOR OVEN TEMP in deg. centigrade
COEFF GOSCOVNT , .13189E+3, -.14177E+1, .13099E-1, -.10943E-3, .50119E-6, -.90333E-9
POINT GOSCOVNV ; OSCILLATOR OVEN VOLTAGE in
COEFF GOSCOVNV , 0,0.068
POINT GOSCREGV ; EXTERNAL OSC REG VOLTAGE in
COEFF GOSCREGV , 0,0.17185E+00
POINT GPREAMPT ; EXTERNAL PREAMP TEMP in deg. centigrade
COEFF GPREAMPT , .16804E+3, -.45905E+1, .69878E-1, -.55932E-3, .21445E-5, -.31649E-8
POINT GPWRSUPT ; R/PA PWR SUPP TEMP in deg. centigrade
COEFF GPWRSUPT , .16804E+3, -.45905E+1, .69878E-1, -.55932E-3, .21445E-5, -.31649E-8
POINT GSTBY12V ; R/PA PWR SUPP +12V (STANDBY) in volts
COEFF GSTBY12V , 0,0.064
POINT GSTBY5V ; R/PA PWR SUPP +5V (STANDBY) in volts
COEFF GSTBY5V , 0,0.032
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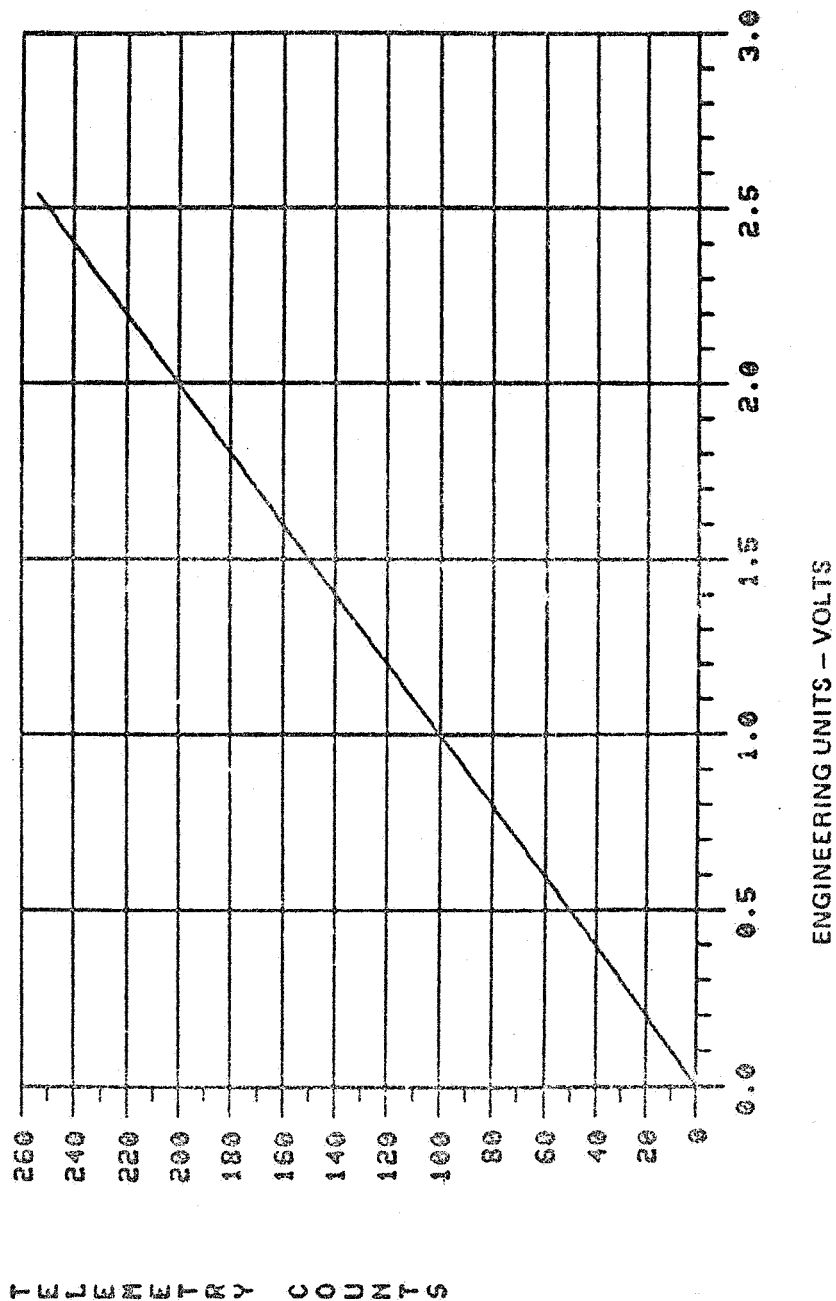
COUNTS VS ENGINEERING UNITS FOR GALOCHDT



TELEMETRY COUNTS

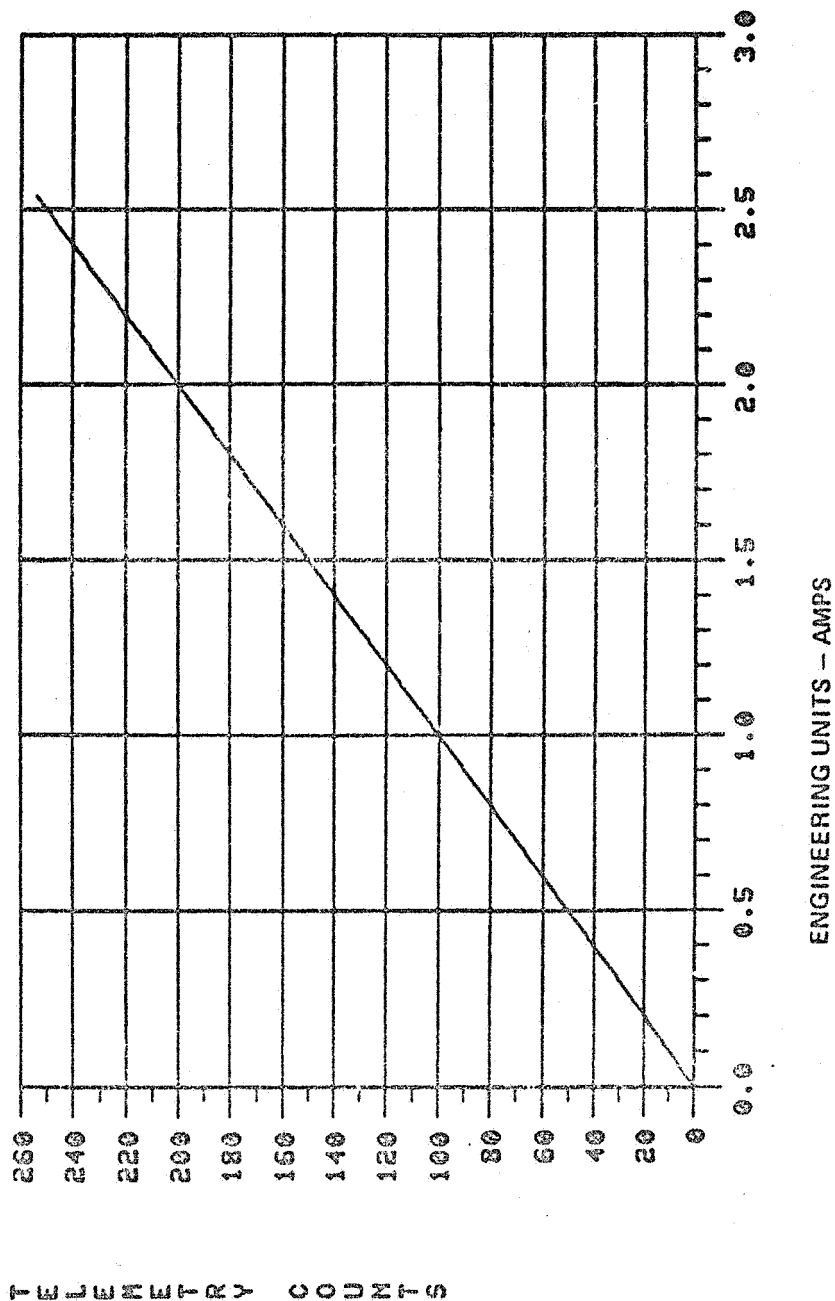
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COUNTS VS ENGINEERING UNITS FOR GCURCMD



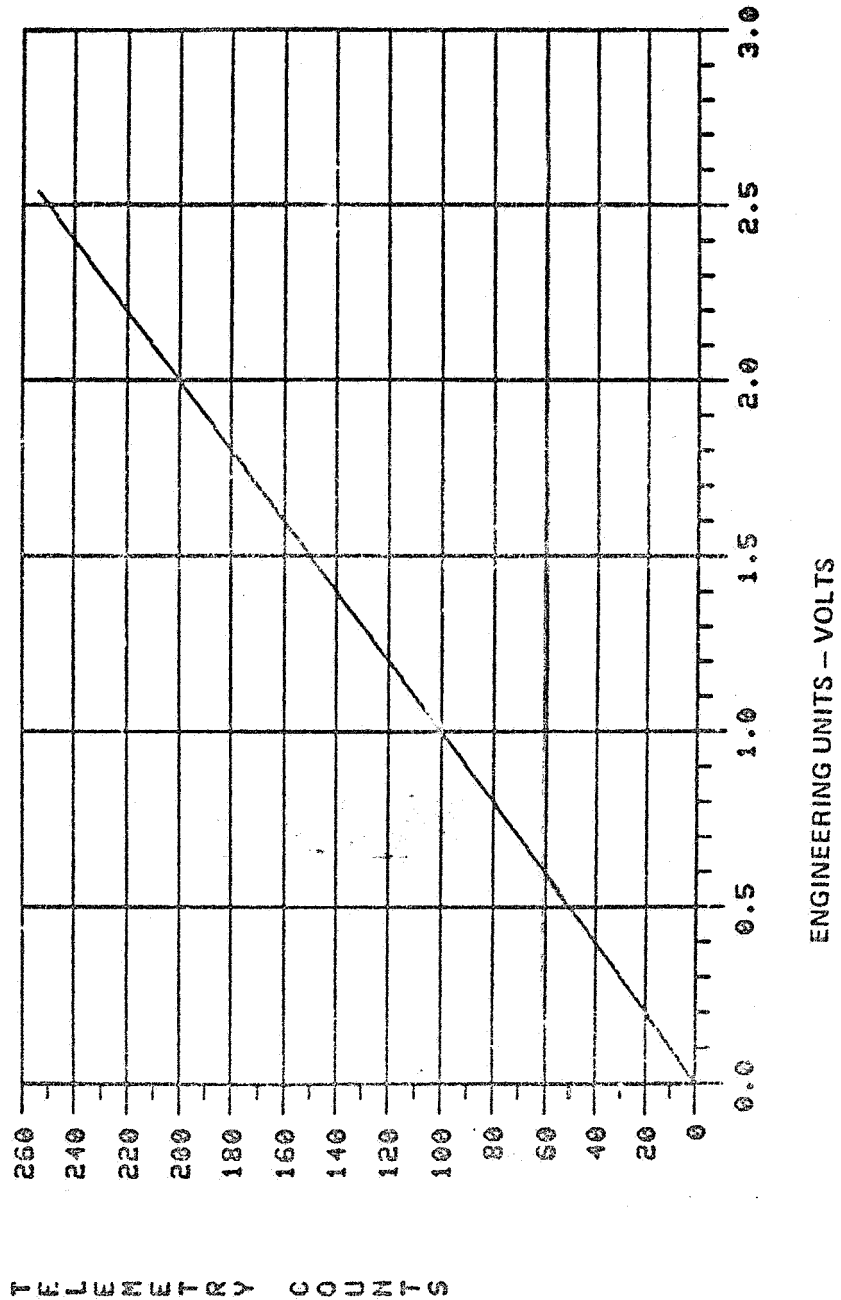
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COUNTS VS ENGINEERING UNITS FOR GCURRIN



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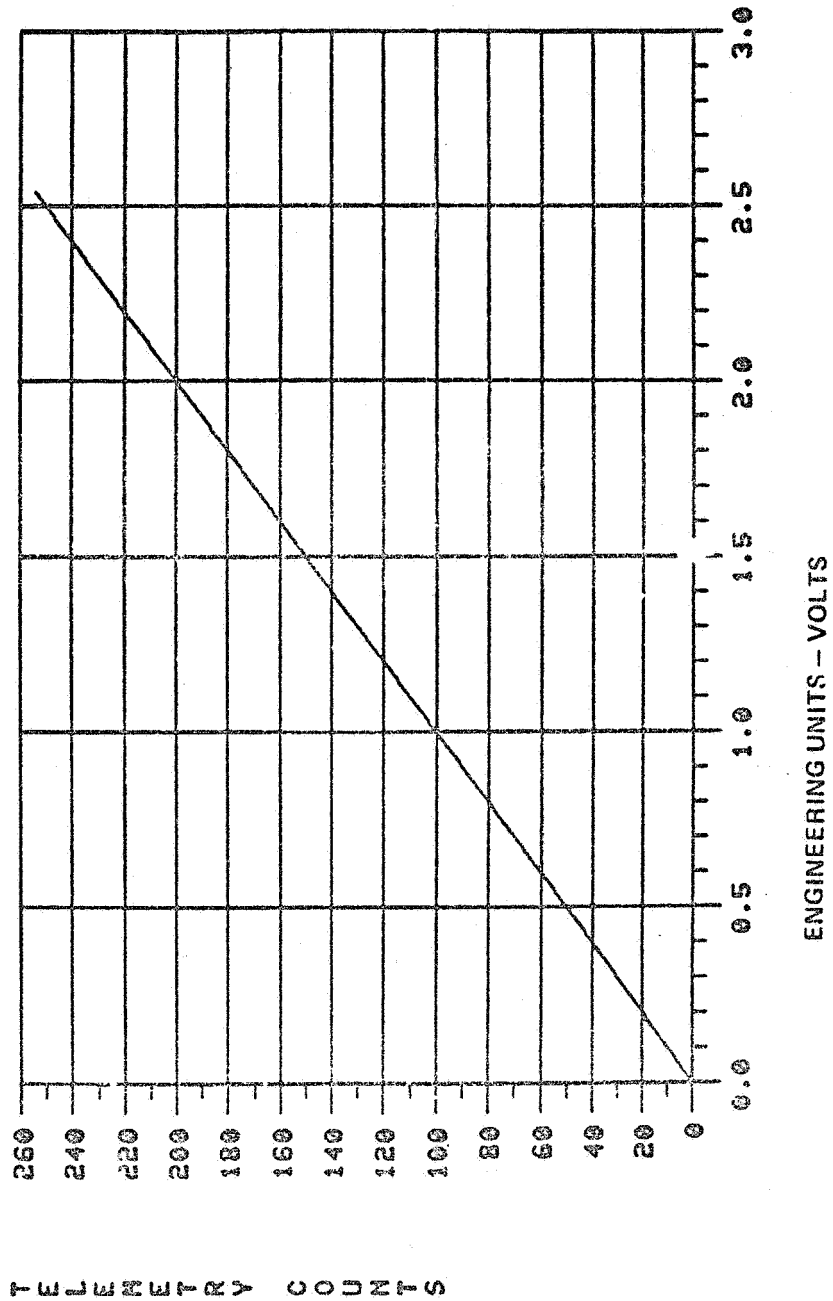
COUNTS VS ENGINEERING UNITS FOR GCURRLDE



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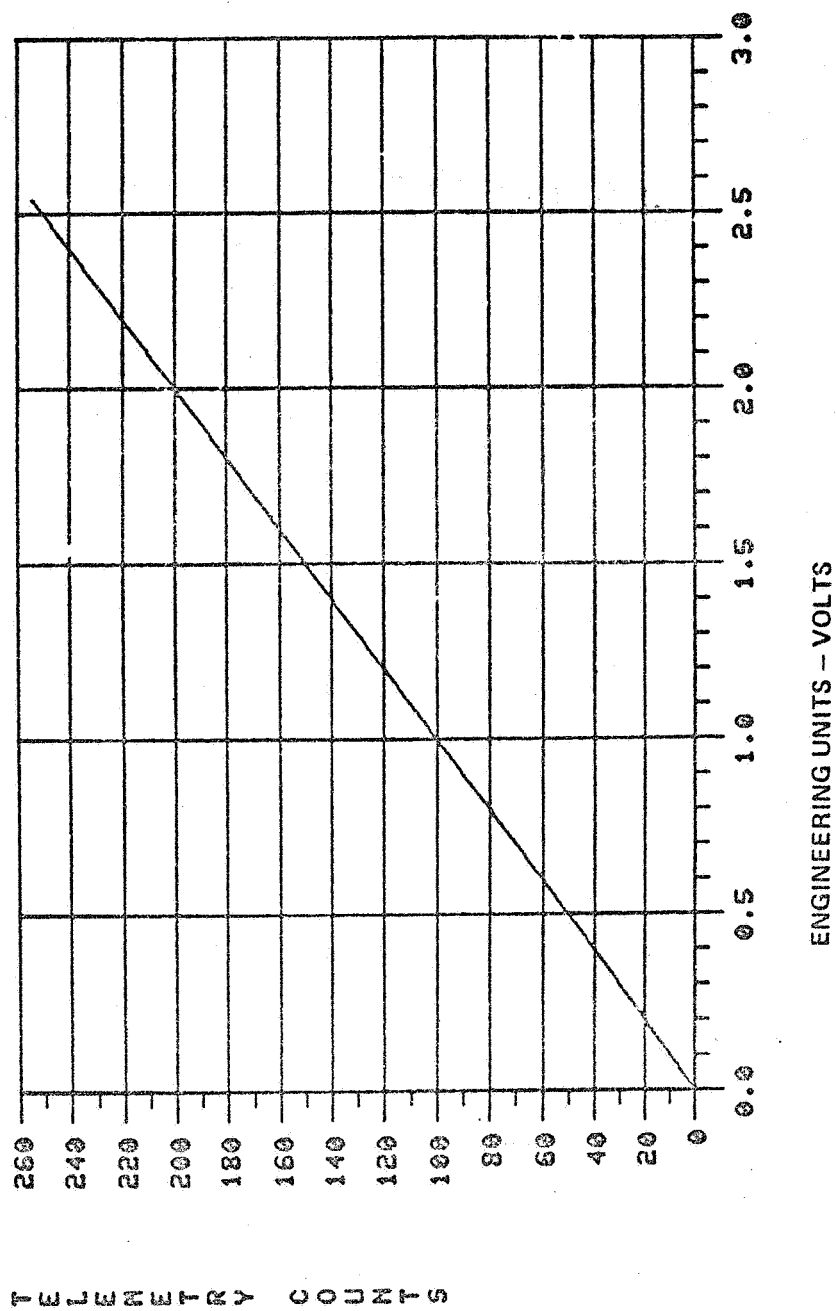
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COUNTS VS ENGINEERING UNITS FOR GCURRNDL



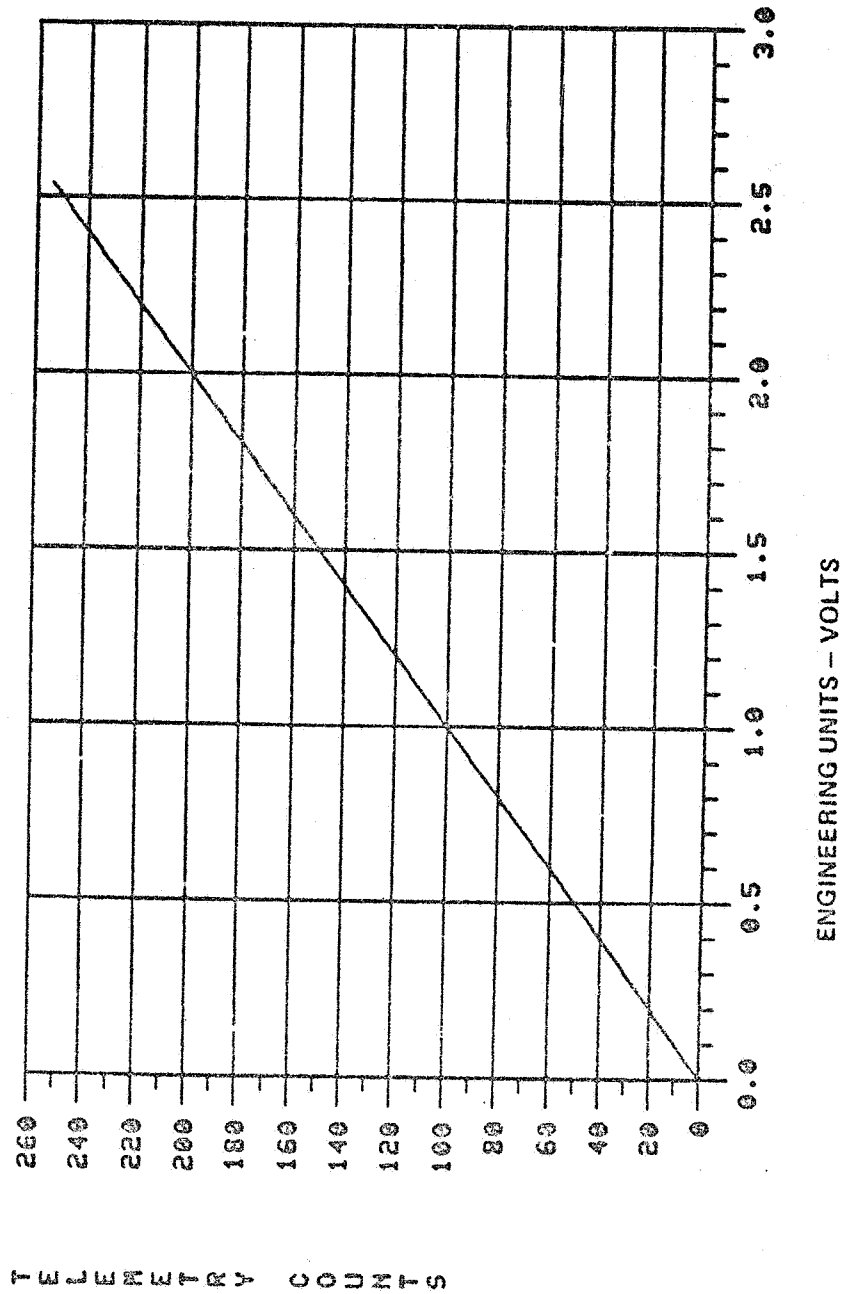
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COUNTS VS ENGINEERING UNITS FOR GOURNSEL



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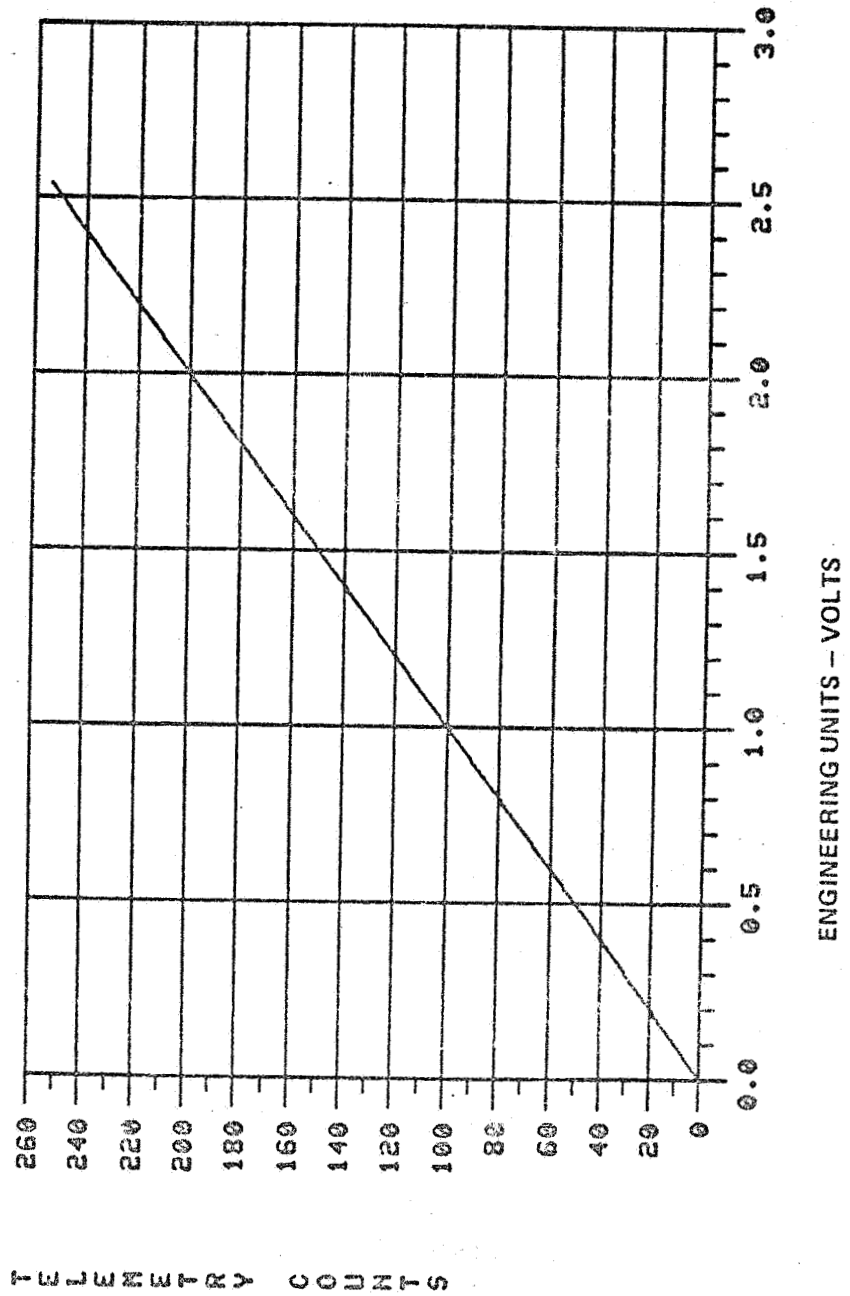
COUNTS VS ENGINEERING UNITS FOR GCURRPRO



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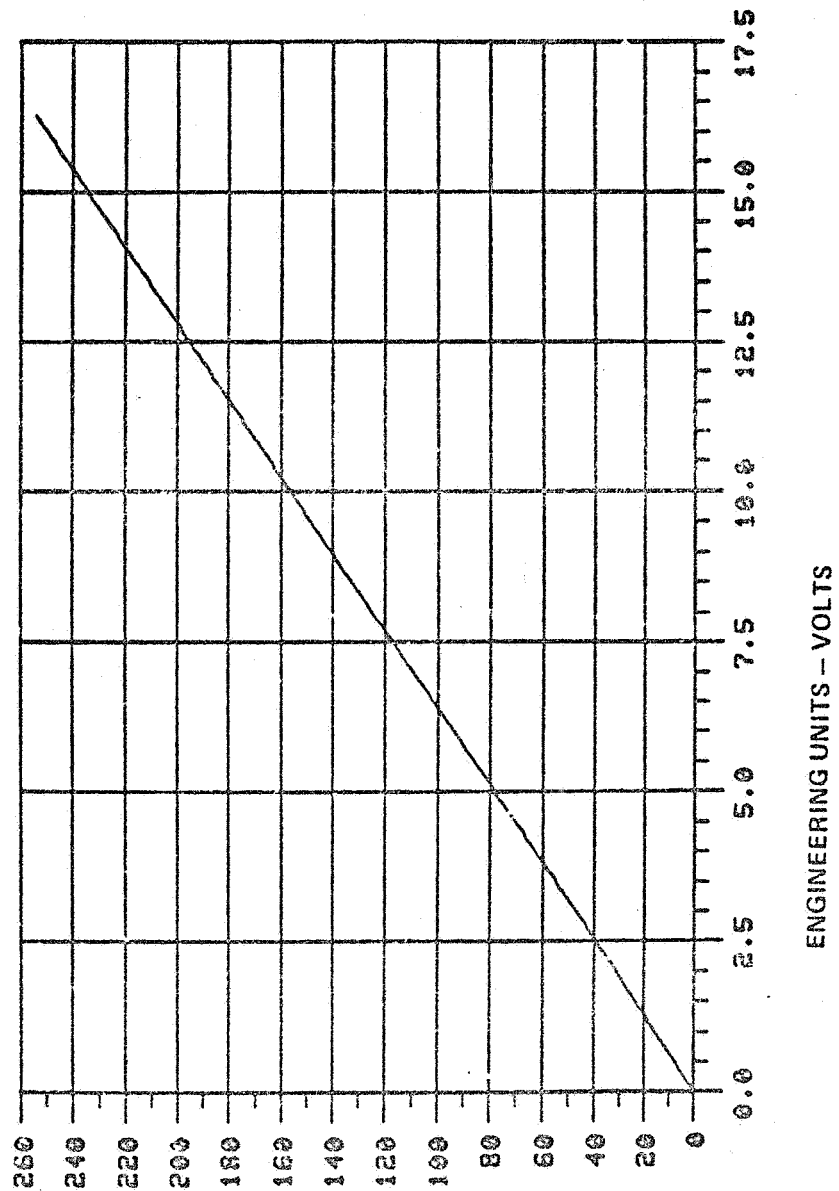
COUNTS VS ENGINEERING UNITS FOR GCURRSDY



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COUNTS VS ENGINEERING UNITS FOR GMPUR12U

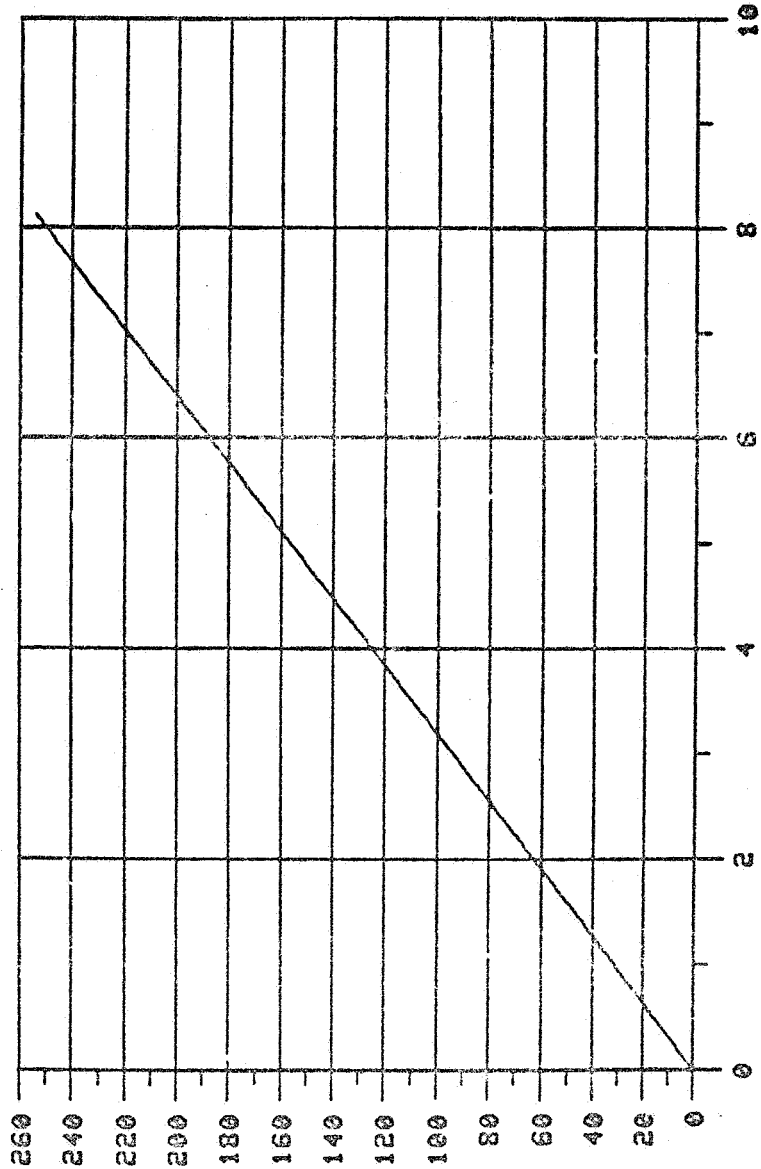


TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR GMPURSU



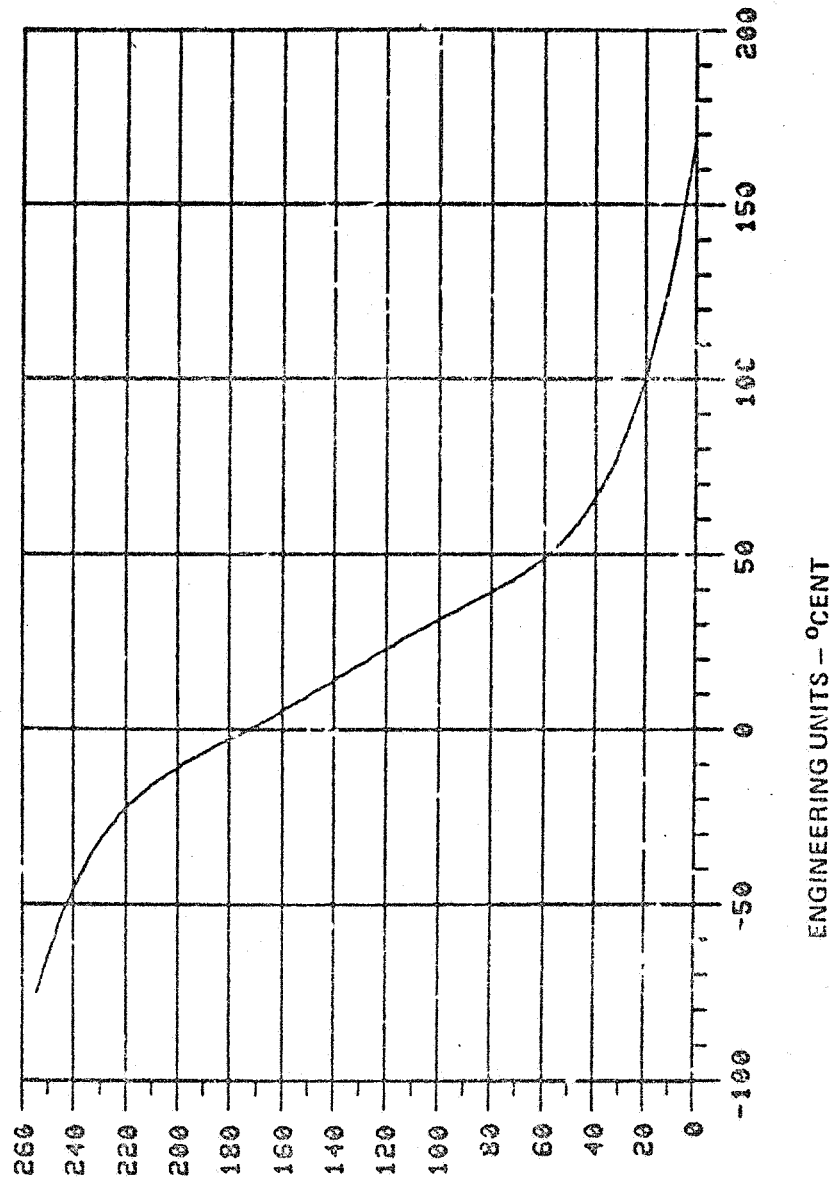
ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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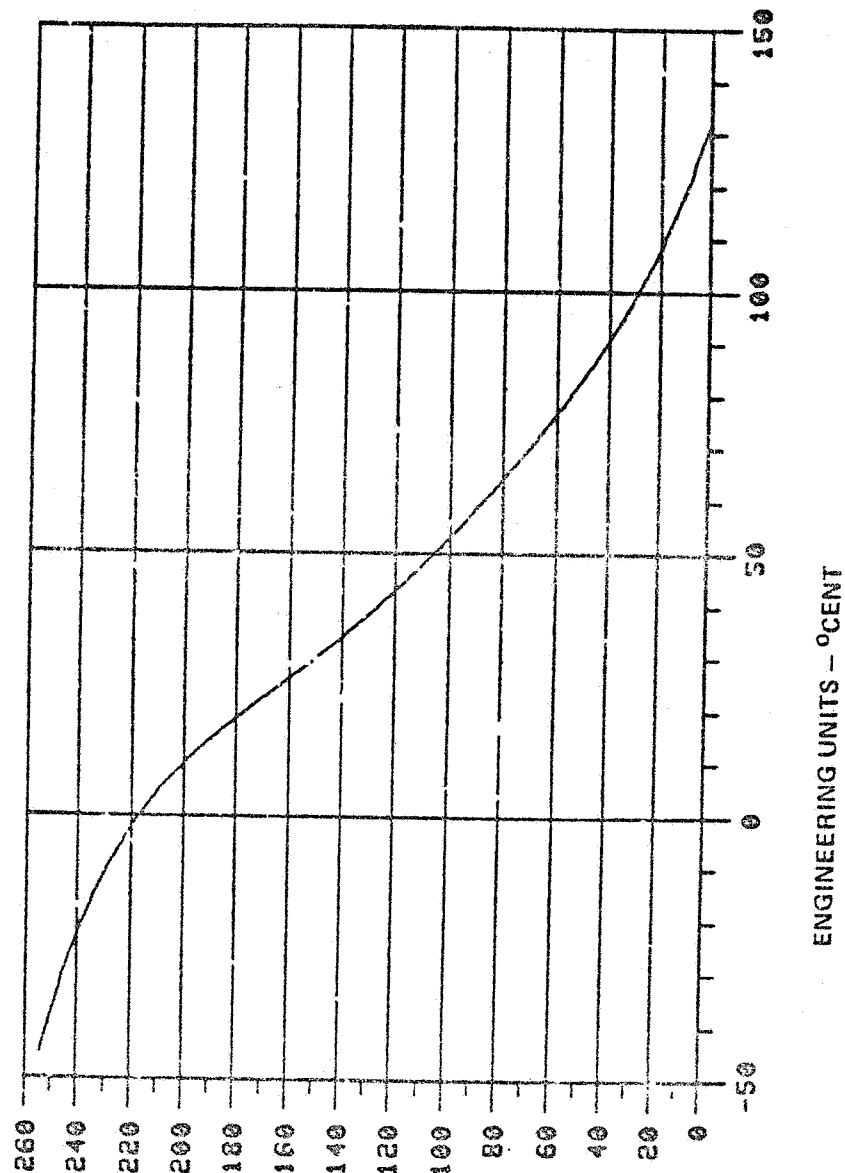
COUNTS VS ENGINEERING UNITS FOR GOSCCAST



TELEMETRY COUNTS

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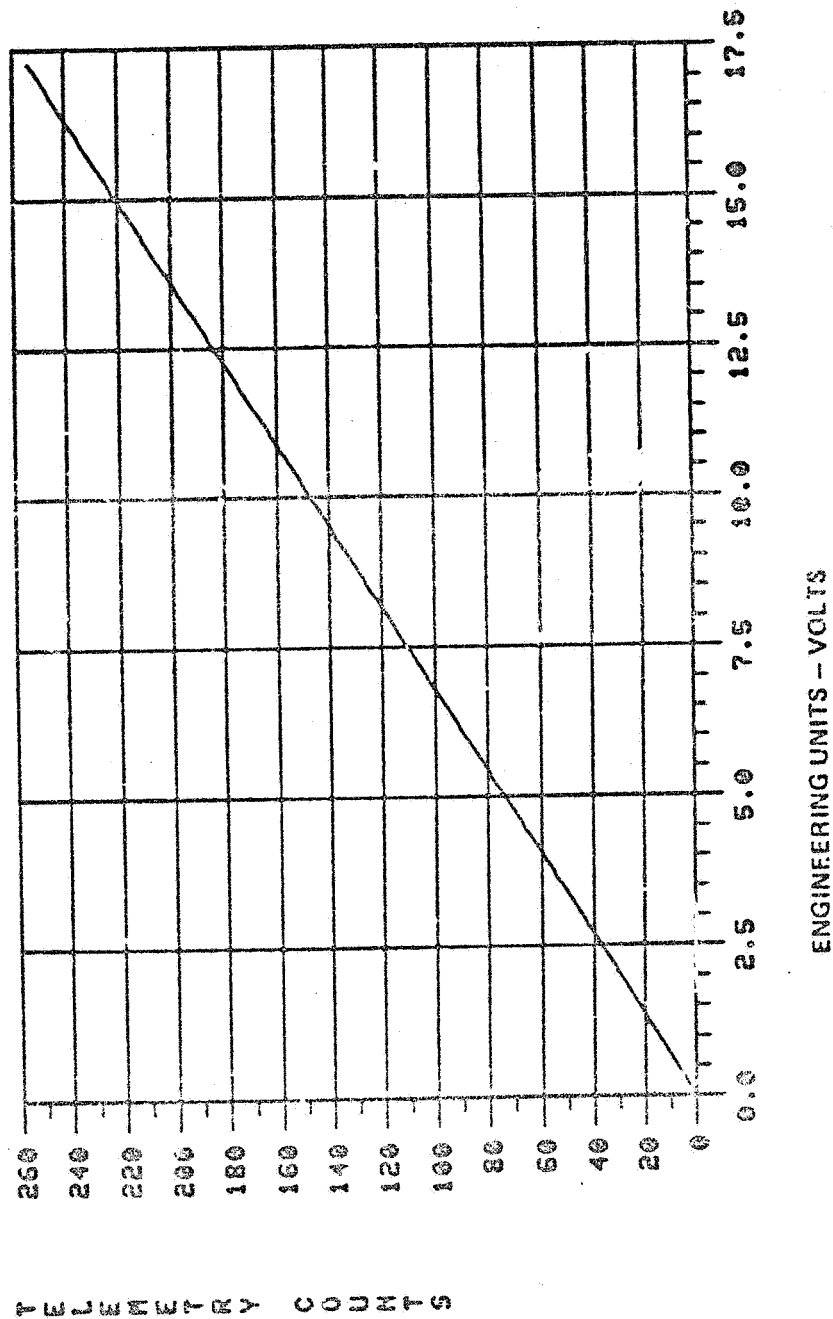
COUNTS VS ENGINEERING UNITS FOR GOSCOUNT



TEMPERATURE COUNTS

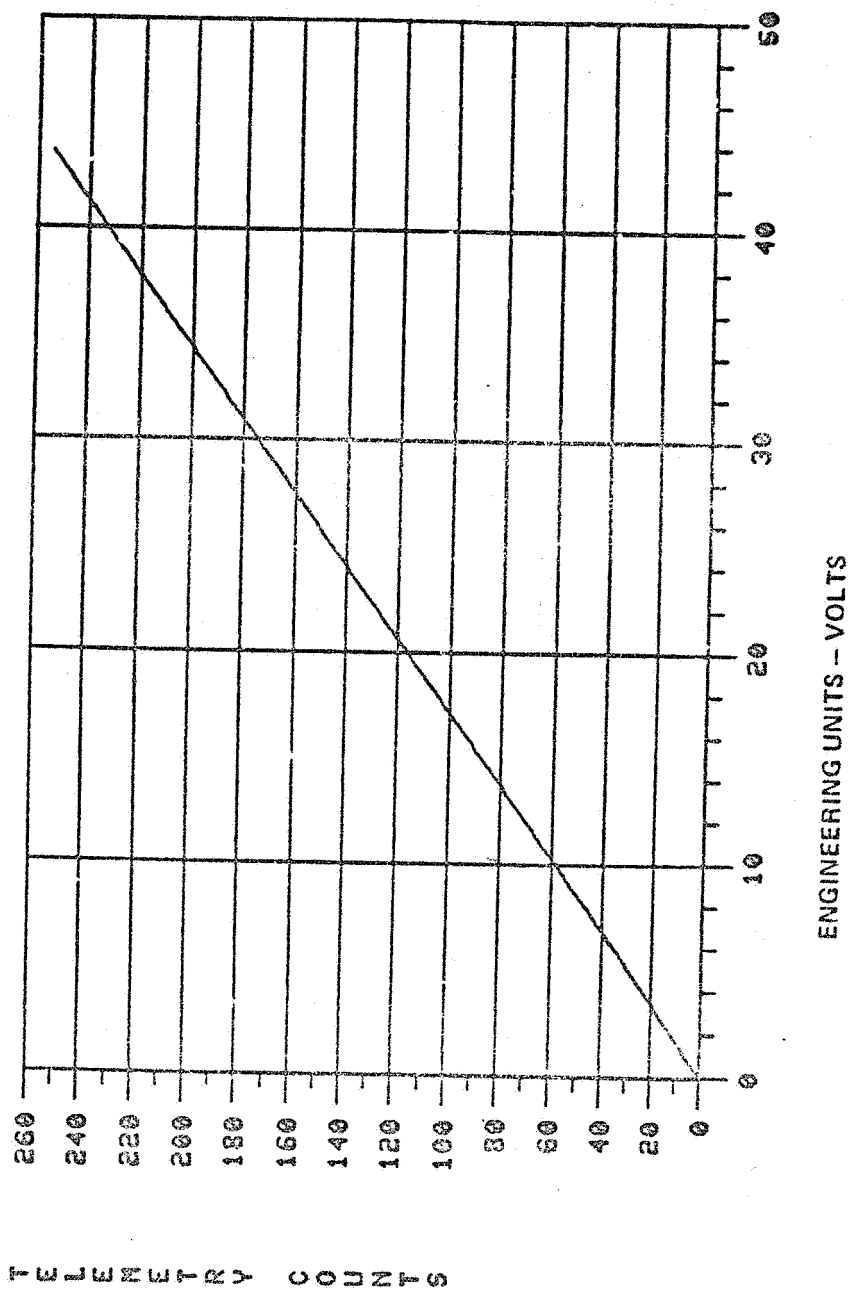
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COUNTS VS ENGINEERING UNITS FOR GOSCOUHU



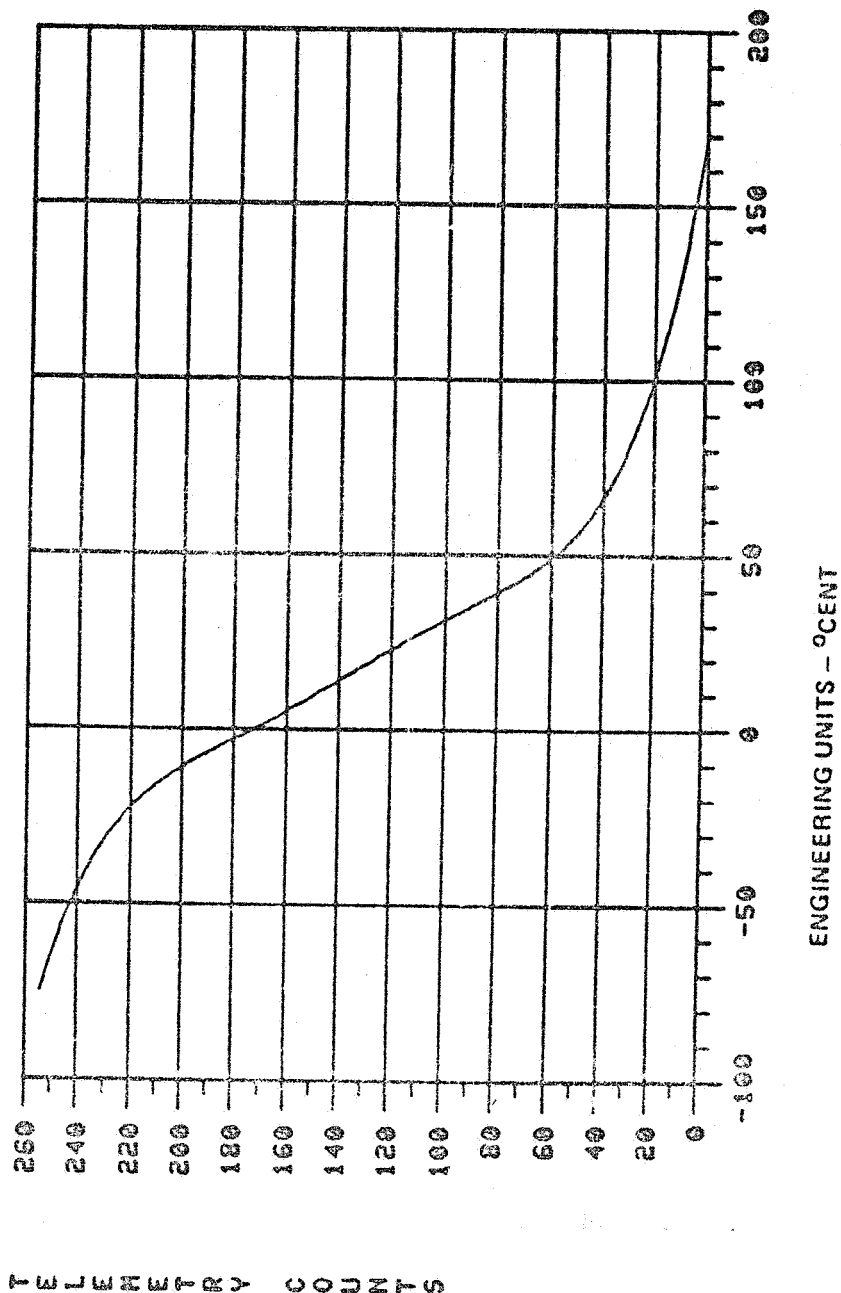
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COUNTS VS ENGINEERING UNITS FOR GOSCREQU



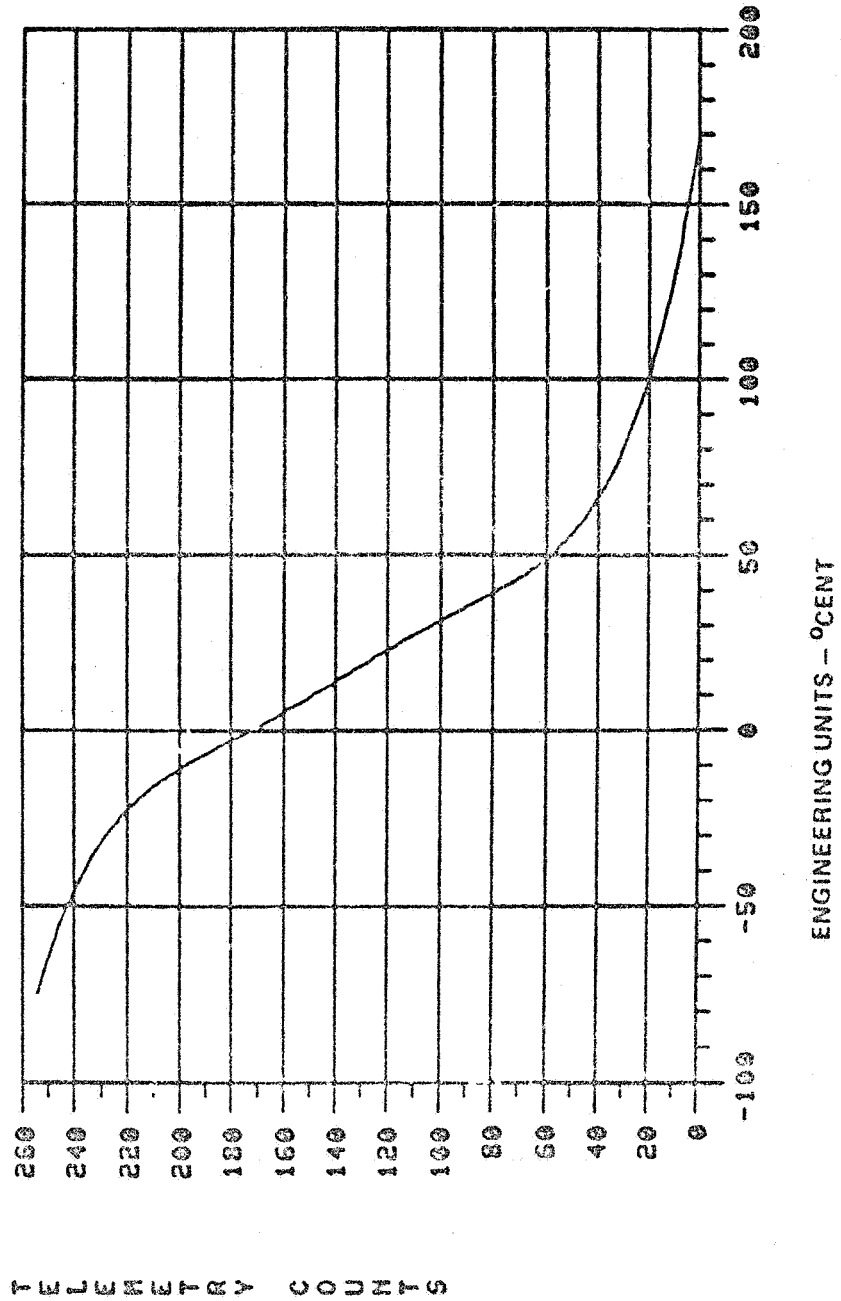
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COUNTS VS ENGINEERING UNITS FOR GPREAMPT



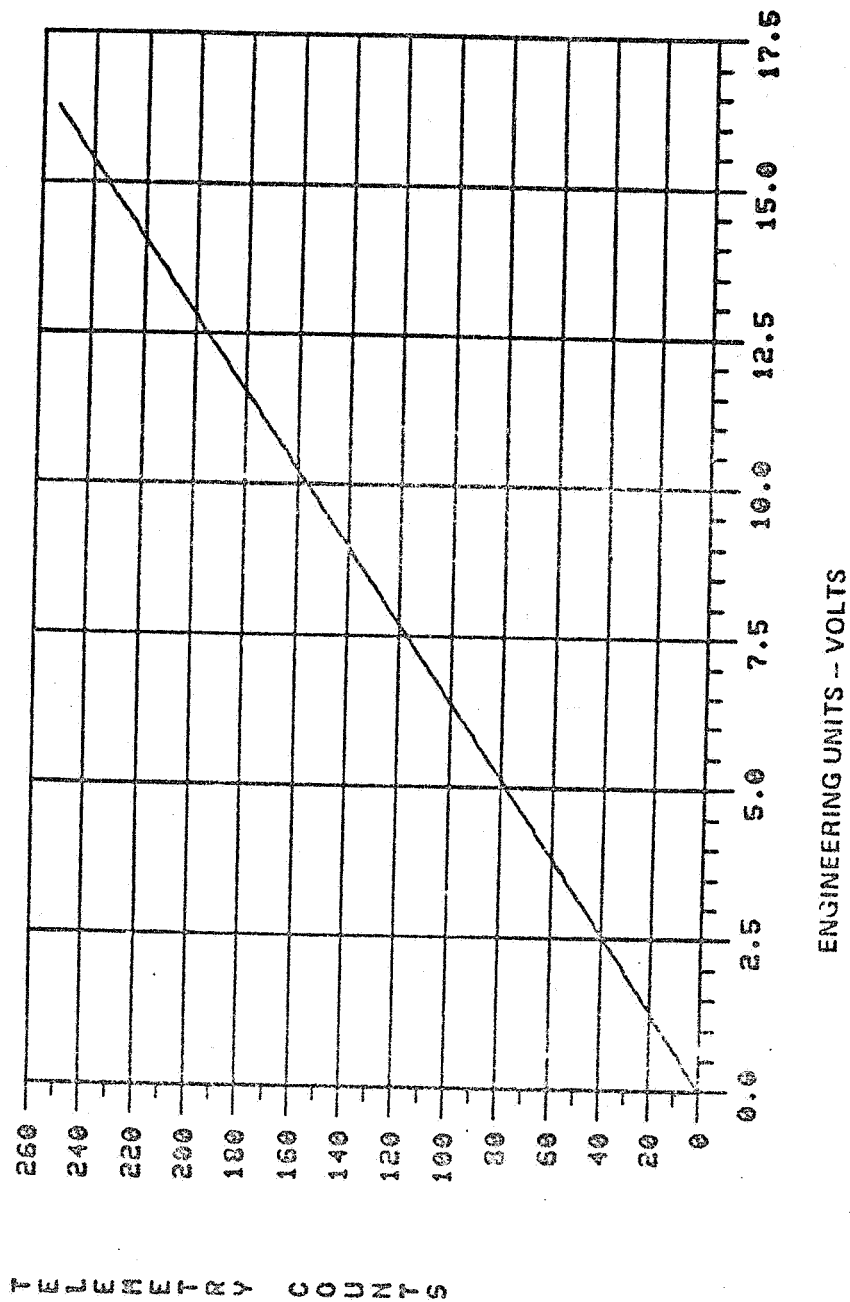
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COUNTS VS ENGINEERING UNITS FOR GPUSUPT



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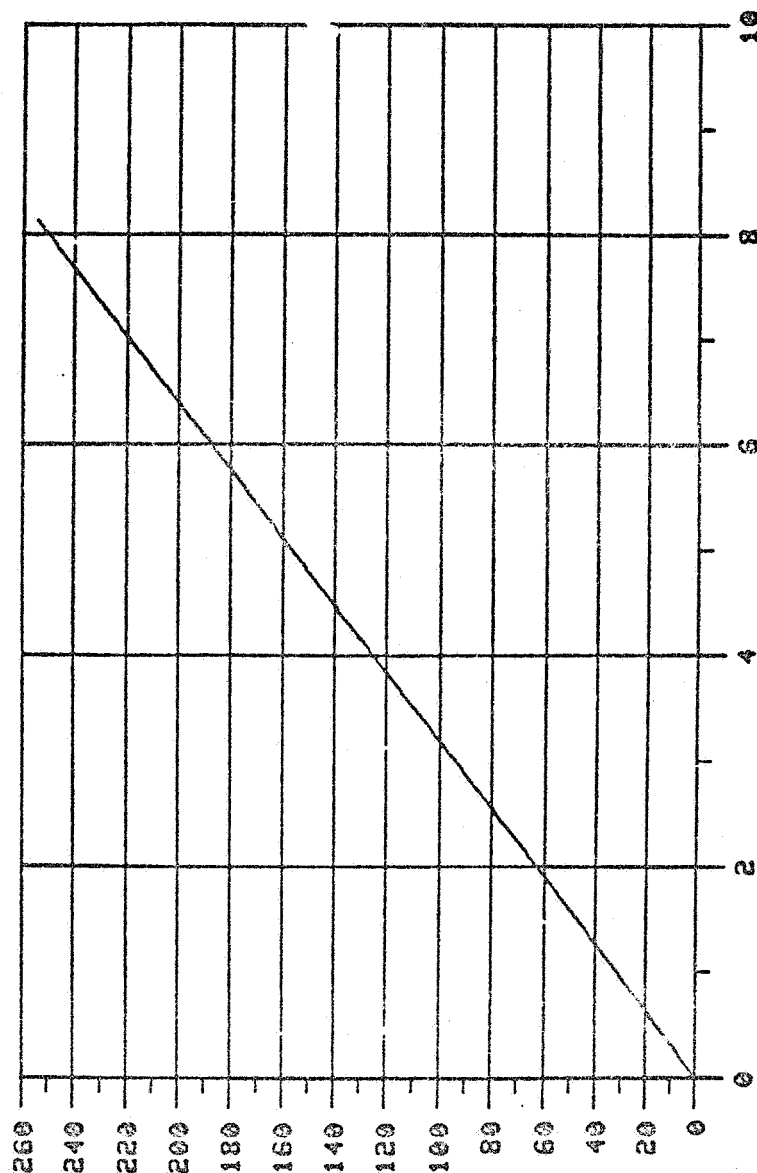
COUNTS VS ENGINEERING UNITS FOR GSTBY12U



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COUNTS VS ENGINEERING UNITS FOR GSTBYSU



ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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APPENDIX A.16

DIRECT ACCESS S-BAND (DASB) TELEMETRY CALIBRATION DATA

The calibration curve coefficients for each telemetry point are controlled in the data base. They are listed along with the unit section number where the sensor is located. Tables showing the coefficients may be obtained from the data base administrator. The tables show telemetry volts (counts) vs. engineering units.

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DASB CONV. DEF.

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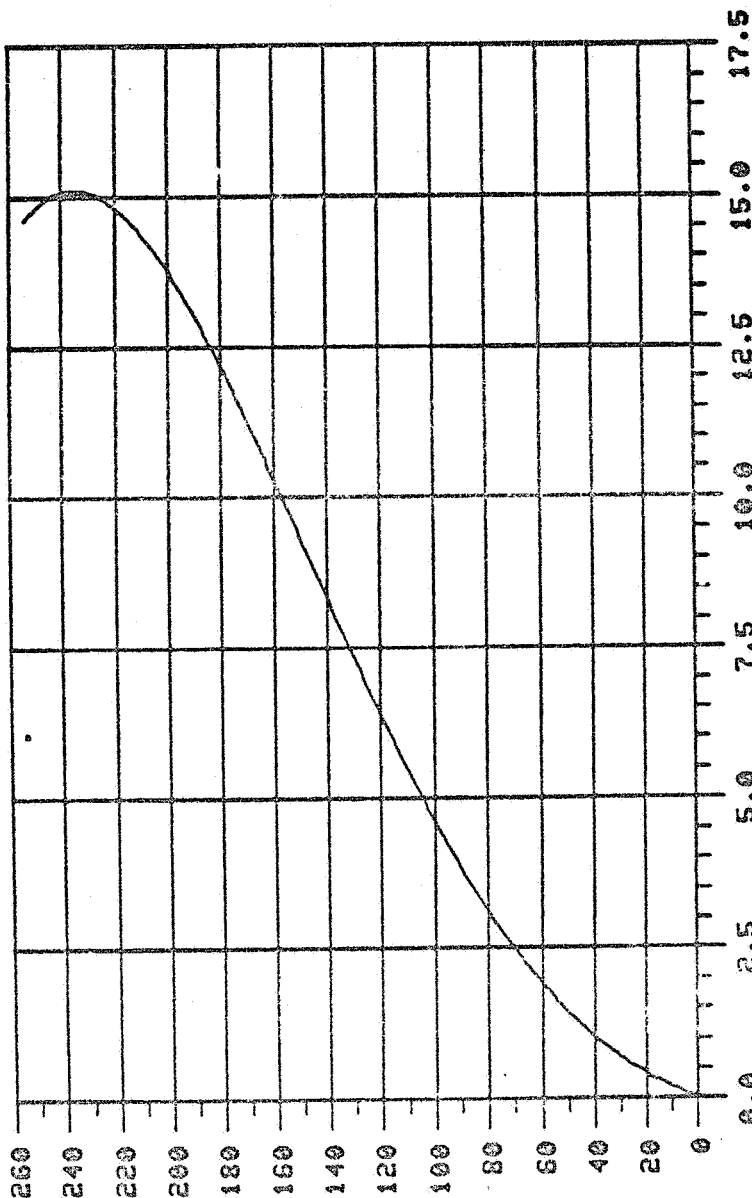
:   SCCU POINT  DEF.
POINT  SAFWDPWR ; XMTR A FORWARD RF POWER in
COEFF  SAFWDPWR , .1575E-1,.1561E-1,.1548E-3,.2469E-5,-.473E-8
POINT  SAPAT    ; XMTR A POWER AMP TEMP in deg. centigrade
COEFF  SAPAT    , .1006E+3,-.2302E+1,.3280E-1,-.2886E-3,.1289E-5,-.2245E-8
POINT  SAPWRSUP ; XMTR A POWER SUPPLY MONITOR in
COEFF  SAPWRSUP , 0,.12108108
POINT  SAREFPWR ; XMTR A REFLECTED RF POWER in
COEFF  SAREFPWR , .6382E+00,-.6080E-1,.1802E-2,-.1637E-4,.7039E-7,-.9832E-10
POINT  SBFWDPWR ; XMTR B FORWARD RF POWER in
COEFF  SBFWDPWR , .7538E-2,.9084E-2,.4293E-3,-.2384E-5,.9155E-8,-.13079E-10
POINT  SBPAT    ; XMTR B POWER AMP TEMP in deg. centigrade
COEFF  SBPAT    , .1006E+3,-.2302E+1,.3230E-1,-.2886E-3,.1289E-5,-.2245E-8
POINT  SBPWSUP  ; XMTR B POWER SUPPLY MONITOR in
COEFF  SBPWSUP  , 0,.12108108
POINT  SBREFPWR ; XMTR B REFLECTED RF POWER in
COEFF  SBREFPWR , -.1616E-1,-.5149E-2,.1525E-2,-.1991E-4,.1127E-6,-.2145E-9

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COUNTS VS ENGINEERING UNITS FOR SAFUDPUR



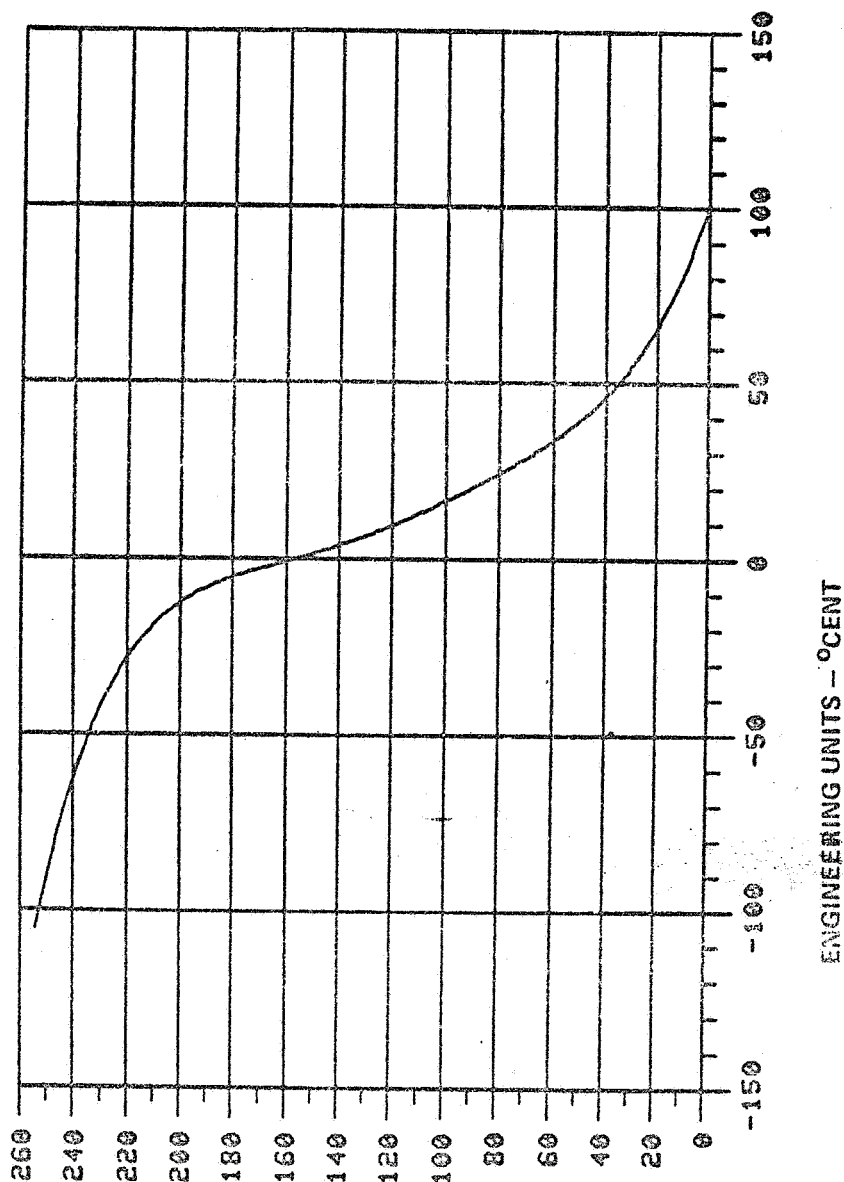
TELEMETRY COUNTS

ENGINEERING UNITS - WATTS

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COUNTS VS ENGINEERING UNITS FOR SAPAT

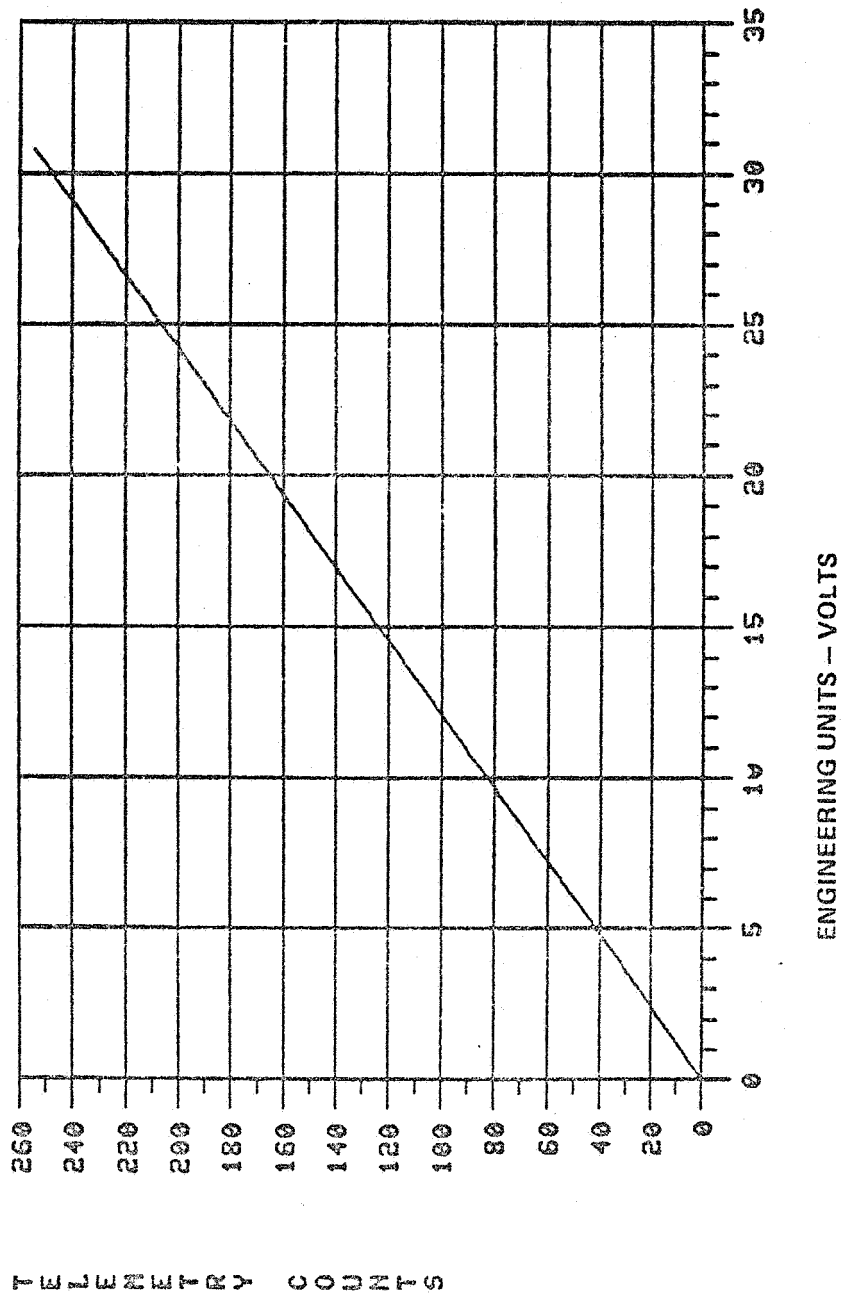


TELEMETRY COUNTS

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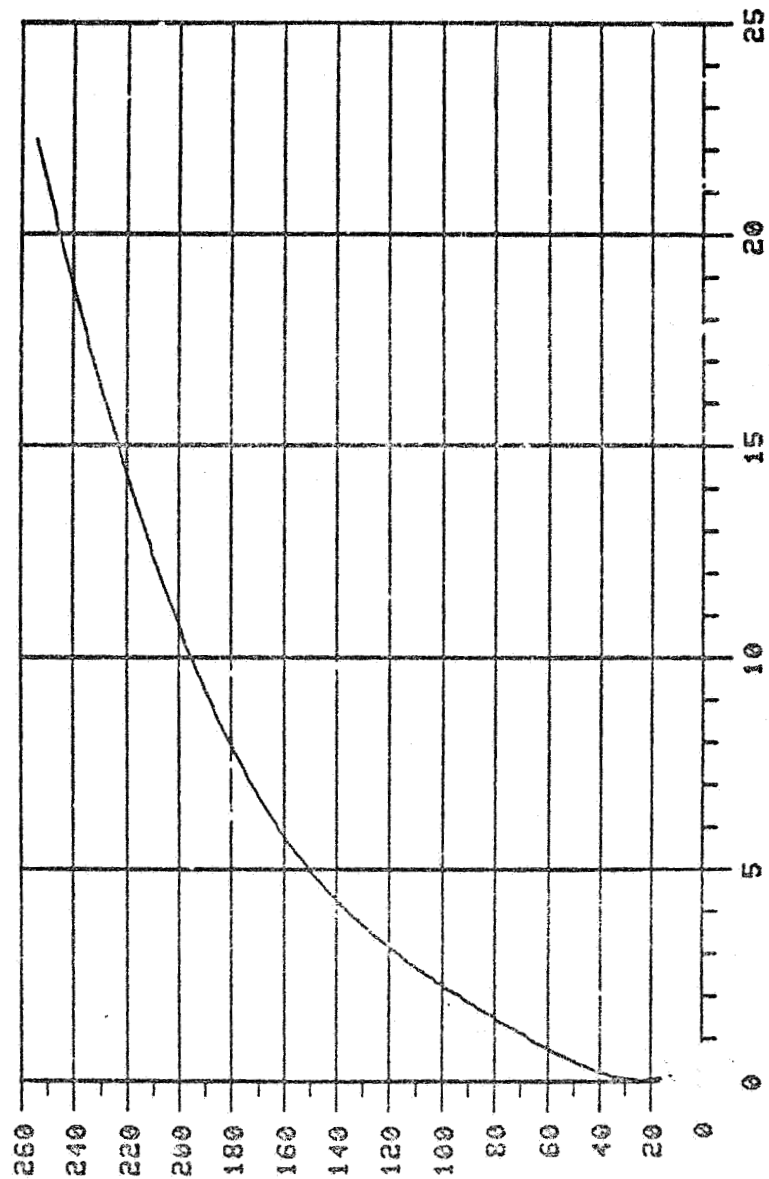
COUNTS VS ENGINEERING UNITS FOR SAPURSUP



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COUNTS US ENGINEERING UNITS FOR SAREFPUR



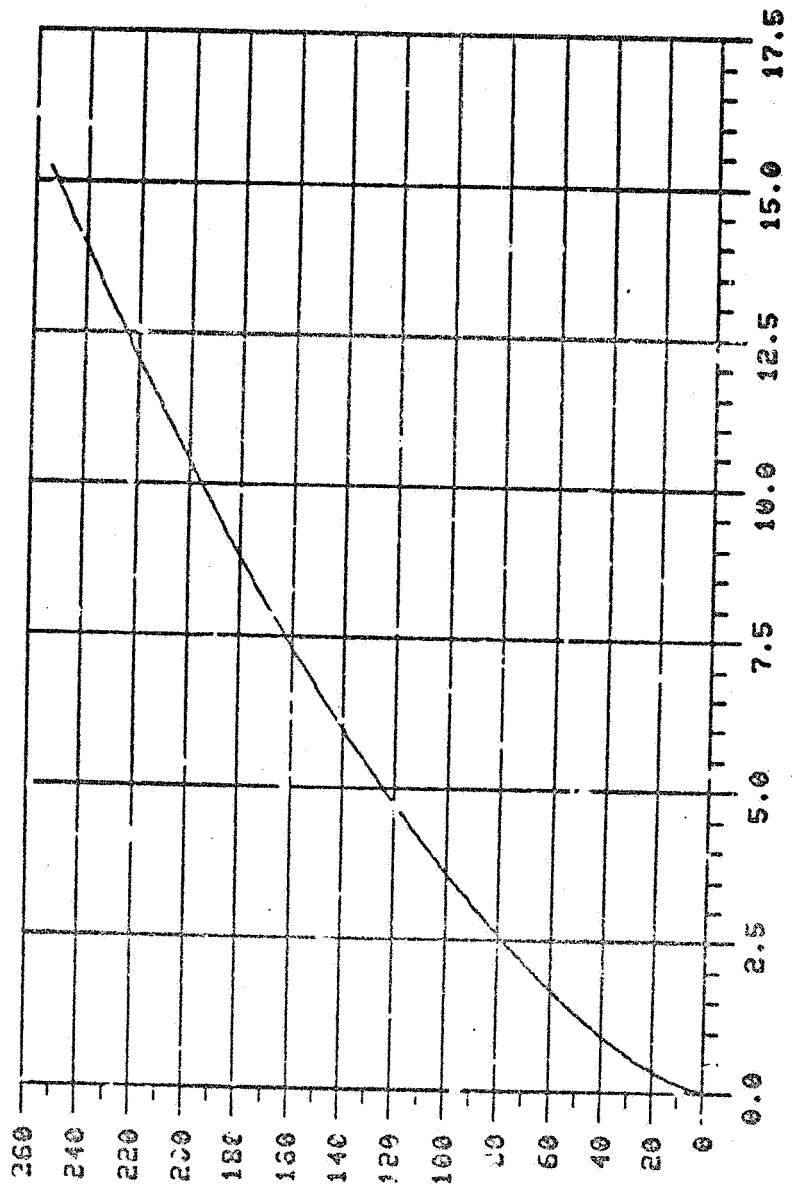
ENGINEERING UNITS - WATTS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR SBFUDPUR

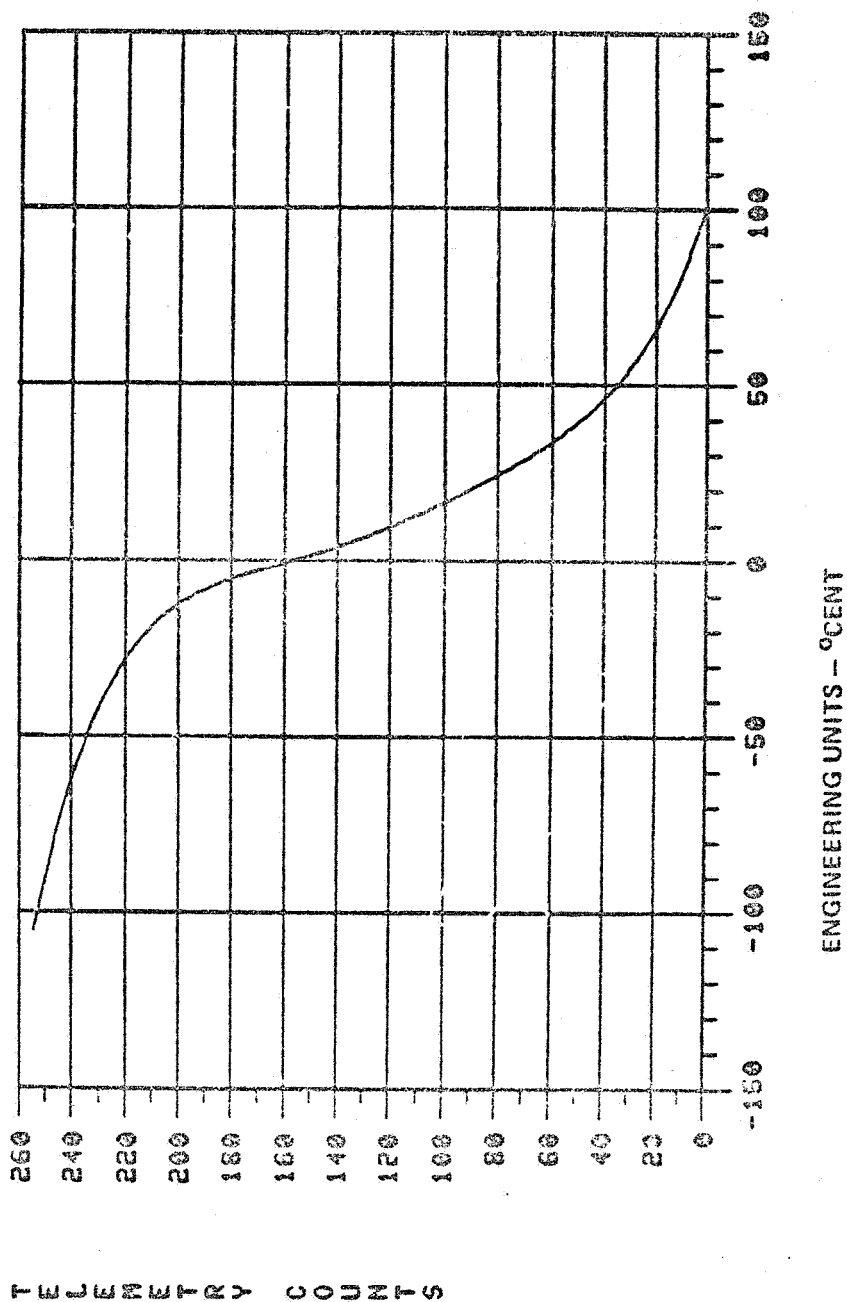


ENGINEERING UNITS - WATTS

TELETYPE COUNTS

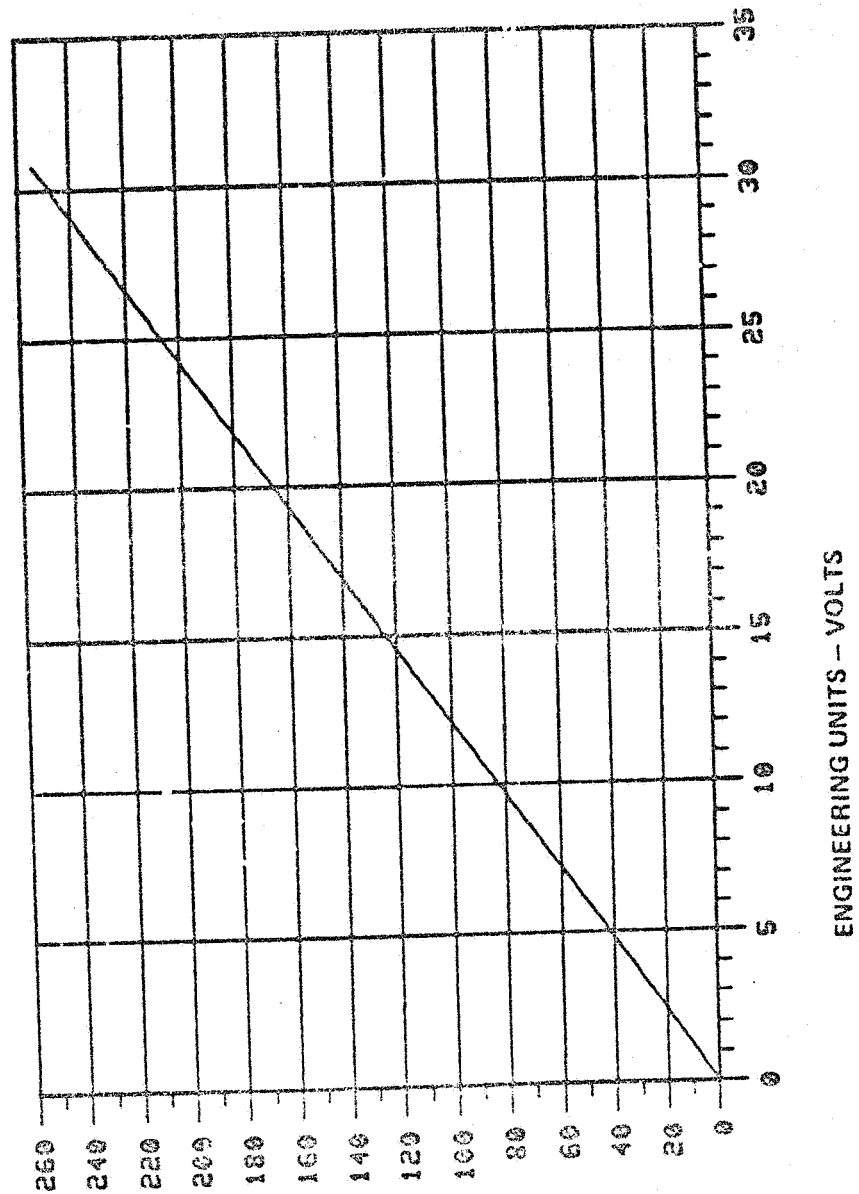
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COUNTS VS ENGINEERING UNITS FOR SBPAT



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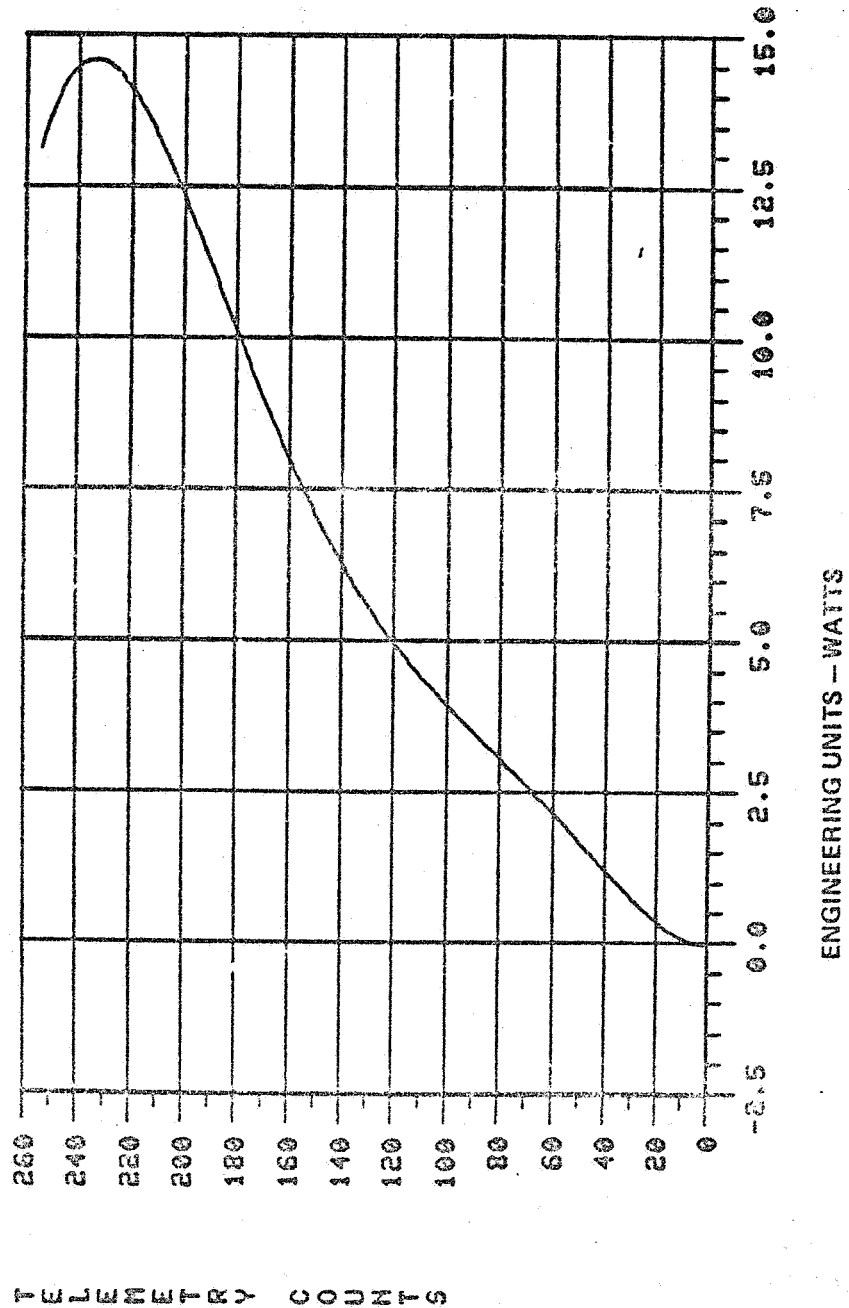
COUNTS VS ENGINEERING UNITS FOR SBPUSUP



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR SBREFFUR



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APPENDIX A.17

MULTI-SPECTRAL SCANNER (MSS) TELEMETRY CALIBRATION DATA

This appendix includes telemetry calibration curves for the passive and active analog telemetry functions for which calibration is possible. Curves are not provided for bipolar voltage functions and for the multiplexer average density of data transitions.

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MSS CONV. DEF.

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;
;      MSS POINT      DEF.
POINT      MICALLMP ; CAL LAMP CURRENT in
COEFF      MICALLMP , 0,0.5
POINT      MIOPSW10 ;
COEFF      MIOPSW10 , 0,1.239
POINT      MIOPSW20 ;
COEFF      MIOPSW20 , 0,1.000
POINT      MIOPSWL1 ; OPTICAL SWITCH LAMP 1 CURRENT MON in
COEFF      MIOPSWL1 , 0,1.239
POINT      MIOPSWL2 ; OPTICAL SWITCH LAMP 2 CURRENT MON in
COEFF      MIOPSWL2 , 0,1.000
COEFF      MISSROM , N1EUTMP,.1121E+3,-.1663E+1,.1348E-1,-.6271E-4,.1396E-6,-.1278E-9
COEFF      MISSROM , N1PBV1,0,.02
COEFF      MISSROM , N1PBV2,0,.02
COEFF      MISSROM , N1PBV3,0,.02
COEFF      MISSROM , N1PBV4,0,.02
COEFF      MISSROM , N1PBV5,0,.02
COEFF      MISSROM , N1PBV6,0,.02
COEFF      MISSROM , N1PBV7,0,.02
COEFF      MISSROM , N1PBV8,0,.02
COEFF      MISSROM , N1PSN12,-.133E+2,.2024E-1,-.1251E-4,.2232E-6,-.15305E-8,.328E-11
COEFF      MISSROM , N1PSN6,-.8246E+1,.1821E-1,.6336E-4,-.8009E-6,.4034E-8,-.6875E-11
COEFF      MISSROM , N1PSP12,0,0.08
COEFF      MISSROM , N1PSP15,0,0.086
COEFF      MISSROM , N1PSP5,0,0.04
COEFF      MISSROM , N1RECI,0,3.0
COEFF      MISSROM , N1TUPSI,0,0.107
COEFF      MISSROM , N1TUTMP,.1121E+3,-.1663E+1,.1349E-1,-.6271E-4,.1396E-6,-.1278E-9
COEFF      MISSROM , N2EUTMP,.1121E+3,-.1663E+1,.1348E-1,-.6271E-4,.1396E-6,-.1278E-9
COEFF      MISSROM , N2PBV1,0,.02
COEFF      MISSROM , N2PBV2,0,.02
COEFF      MISSROM , N2PBV3,0,.02
COEFF      MISSROM , N2PBV4,0,.02
COEFF      MISSROM , N2PBV5,0,.02
COEFF      MISSROM , N2PBV6,0,.02
COEFF      MISSROM , N2PBV7,0,.02
COEFF      MISSROM , N2PBV8,0,.02
COEFF      MISSROM , N2PSN12,-.133E+2,.2023E-1,-.125E-4,.2232E-6,-.153E-8,.3284E-11
COEFF      MISSROM , N2PSN6,-.8246E+1,.1822E-1,.6335E-4,-.801E-6,.403E-8,-.6875E-11
COEFF      MISSROM , N2PSP12,0,0.08
COEFF      MISSROM , N2PSP15,0,0.086
COEFF      MISSROM , N2PSP5,0,0.04
COEFF      MISSROM , N2RECI,0,3.0
COEFF      MISSROM , N2TUPSI,0,0.107
COEFF      MISSROM , N2TUTMP,.1121E+3,-.1663E+1,.1349E-1,-.6271E-4,.1396E-6,-.1278E-9
POINT      MTELCVR ; ELECTRONICS COVER TEMP (RADIOMETER) in deg. centigrade
COEFF      MTELCVR , .11853E+3,-.17516E+1,.15681E-1,-.86077E-4,.24412E-6,-.27918E-9
POINT      MTFIBOP1 ; FIBER OPTICS TEMP 1 in deg. centigrade
COEFF      MTFIBOP1 , .11853E+3,-.17516E+1,.15681E-1,-.86077E-4,.24412E-6,-.27918E-9

```

POINT	MTFIBOP2	; FIBER OPTICS TEMP 2 in deg. centigrade
COEFF	MTFIBOP2	, .11853E+3, -.17516E+1, .15681E-1, -.86077E-4, .24412E-6, -.27918E-9
POINT	MTMUX	; MUX TEMP in deg. centigrade
COEFF	MTMUX	, .11853E+3, -.17516E+1, .15681E-1, -.86077E-4, .24412E-6, -.27918E-9
POINT	MTPPS1	; PRIMARY POWER SUPPLY 1 TEMP in deg. centigrade
COEFF	MTPPS1	, .11853E+3, -.17516E+1, .15681E-1, -.86077E-4, .24412E-6, -.27918E-9
POINT	MTPPS2	; PRIMARY POWER SUPPLY 2 TEMP in deg. centigrade
COEFF	MTPPS2	, .11853E+3, -.17516E+1, .15681E-1, -.86077E-4, .24412E-6, -.27918E-9
POINT	MTRADPS	; PWR SUPPLY TEMP (RADIOMETER) in deg. centigrade
COEFF	MTRADPS	, .11853E+3, -.17516E+1, .15681E-1, -.86077E-4, .24412E-6, -.27918E-9
POINT	MTSCMRCL	; SCAN MIRROR COIL TEMP in deg. centigrade
COEFF	MTSCMRCL	, .11853E+3, -.17516E+1, .15681E-1, -.86077E-4, .24412E-6, -.27918E-9
POINT	MTSCMREL	; SCAN MIRROR ELECTRONICS TEMP in deg. centigrade
COEFF	MTSCMREL	, .11853E+3, -.17516E+1, .15681E-1, -.86077E-4, .24412E-6, -.27918E-9
POINT	MTSCMRHG	; SCAN MIRROR HOUSING TEMP in deg. centigrade
COEFF	MTSCMRHG	, .11853E+3, -.17516E+1, .15681E-1, -.86077E-4, .24412E-6, -.27918E-9
POINT	MTSCMRRG	; SCAN MIRROR REGULATOR TEMP in deg. centigrade
COEFF	MTSCMRRG	, .11853E+3, -.17516E+1, .15681E-1, -.86077E-4, .24412E-6, -.27918E-9
POINT	MVB1HVAO	; 0, .0096
COEFF	MVB1HVAO	; 0, .0096
POINT	MVB1HVBO	; 0, .0096
COEFF	MVB1HVBO	; 0, .0096
POINT	MVB2HVAO	; 0, .0096
COEFF	MVB2HVAO	; 0, .0096
POINT	MVB2HVBO	; 0, .0096
COEFF	MVB2HVBO	; 0, .0096
POINT	MVB3HVAO	; 0, .0096
COEFF	MVB3HVAO	; 0, .0096
POINT	MVB3HVBO	; 0, .0096
COEFF	MVB3HVBO	; 0, .0096
POINT	MVBD1B15	; BAND 1 +/- 15V REGULATOR in volts
COEFF	MVBD1B15	, 0, .02
POINT	MVBD1HVA	; HV MONITOR BAND 1A in
COEFF	MVBD1HVA	, 0, .0096
POINT	MVBD1HVB	; HV MONITOR BAND 1B in
COEFF	MVBD1HVB	, 0, .0096
POINT	MVBD2B15	; BAND 2 +/- 15V REGULATOR in volts
COEFF	MVBD2B15	, 0, .02
POINT	MVBD2HVA	; HV MONITOR BAND 2A in
COEFF	MVBD2HVA	, 0, .0096
POINT	MVBD2HVB	; HV MONITOR BAND 2B in
COEFF	MVBD2HVB	, 0, .0096
POINT	MVBD3B15	; BAND 3 +/- 15V REGULATOR in volts
COEFF	MVBD3B15	, 0, .02
POINT	MVBD3HVA	; HV MONITOR BAND 3A in
COEFF	MVBD3HVA	, 0, .0096
POINT	MVBD3HVB	; HV MONITOR BAND 3B in
COEFF	MVBD3HVB	, 0, .0096
POINT	MVBD4B15	; BAND 4 +/- 15V REGULATOR in volts
COEFF	MVBD4B15	, 0, .02
POINT	MVMUXAD	; MUX A/D REFERENCE in
COEFF	MVMUXAD	, 0, .02
POINT	MVMUXP05	; MUX +5V LOGIC MONITOR in
COEFF	MVMUXP05	, 0, .04
POINT	MVP12N06	; +12V/-6V REGULATOR in volts
COEFF	MVP12N06	, 0, .02

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POINT	MVPS1N24	; -24.5V PRIMARY POWER SUPPLY 1 in
COEFF	MVPS1N24	, 0, -.192
POINT	MVPS1N0	; 0, -.192
COEFF	MVPS1N0	, 0, -.192
POINT	MVPS2N24	; -24.5V PRIMARY POWER SUPPLY 2 in
COEFF	MVPS2N24	, 0, -.192
POINT	MVPS2N0	; 0, -.192
COEFF	MVPS2N0	, 0, -.192
POINT	MVRADB19	; RADIOMETER +/- 19V in volts
COEFF	MVRADB19	, 0, .02
POINT	MVRADP05	; +5V RADIOMETER POWER SUPPLY in volts
COEFF	MVRADP05	, 0, .02
POINT	MVRADP19	; RADIOMETER +19V in volts
COEFF	MVRADP19	, 0, .088
POINT	MVRDP190	; 0, .088
COEFF	MVRDP190	, 0, .088
POINT	MVSCMRDR	; SCAN MIRROR DRIVE in
COEFF	MVSCMRDR	, 29.725, -.075
POINT	MVSCMRRG	; SCAN MIRROR REGULATOR in
COEFF	MVSCMRRG	, -35.5, .0676
POINT	MVSHRCTL	; SHUTTER CONTROL INTEGRATOR in
COEFF	MVSHRCTL	, 0, .02
POINT	MVTLMP15	; +15V TELEMETRY REGULATOR in
COEFF	MVTLMP15	, 0, .0788
POINT	MXAVDATA	; AVERAGE DATA DENSITY in
COEFF	MXAVDATA	, 0, .02
POINT	MXBD1CHA	; BAND 1 CHANNEL A VIDEO in
COEFF	MXBD1CHA	, -12.48, .0960
POINT	MXBD2CHA	; BAND 2 CHANNEL A VIDEO in
COEFF	MXBD2CHA	, -12.48, .0960
POINT	MXBD3CHA	; BAND 3 CHANNEL A VIDEO in
COEFF	MXBD3CHA	, -12.48, .0960
POINT	MXBD4CHA	; BAND 4 CHANNEL A VIDEO in
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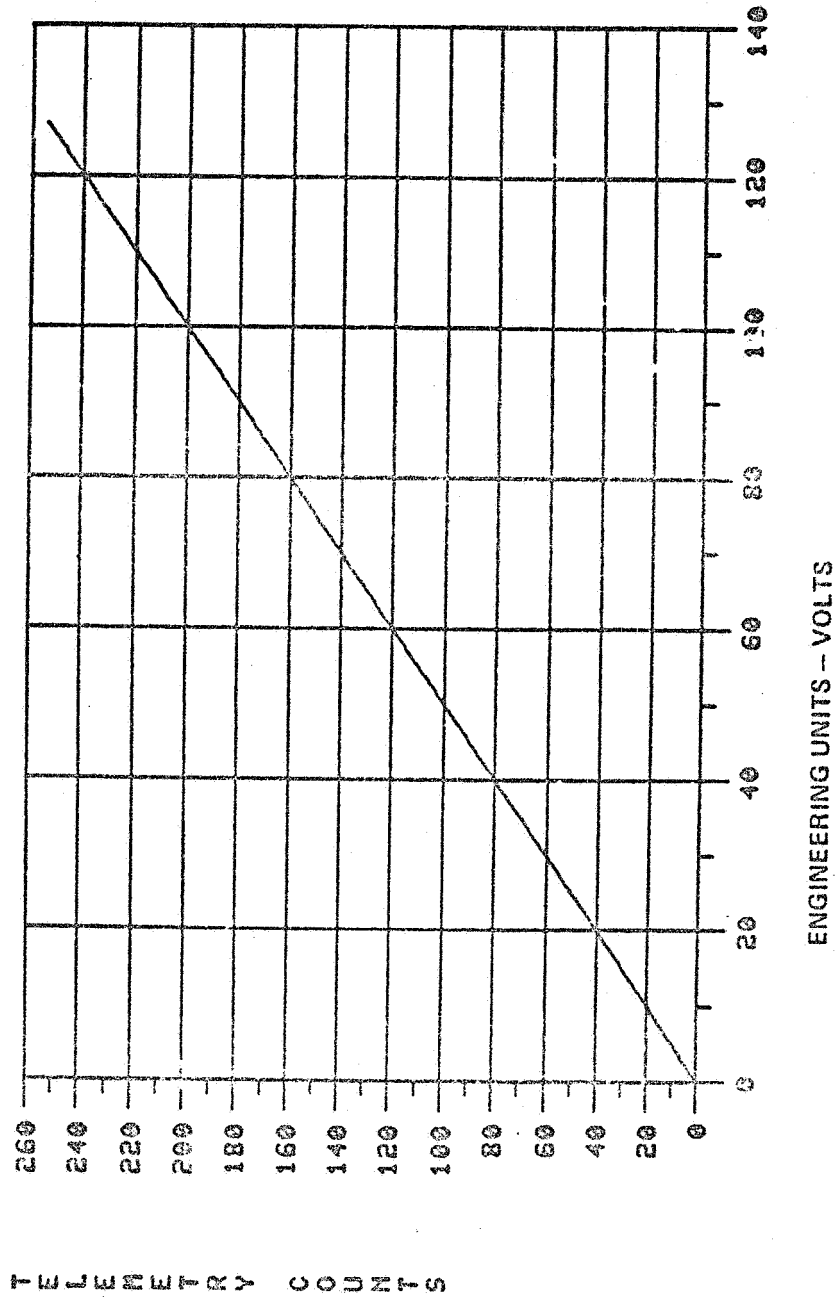
SVS-10266/3A

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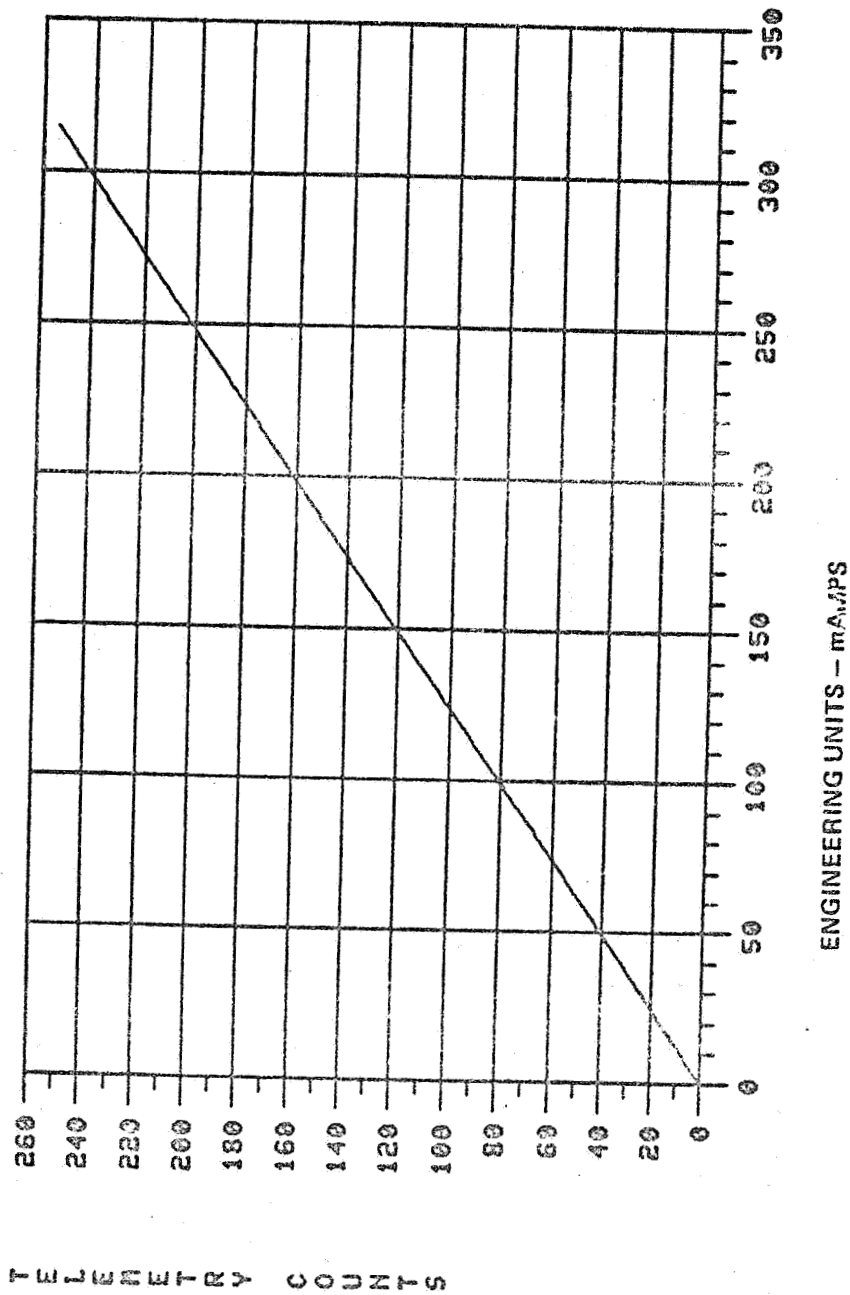
COUNTS VS ENGINEERING UNITS FOR NICALMP



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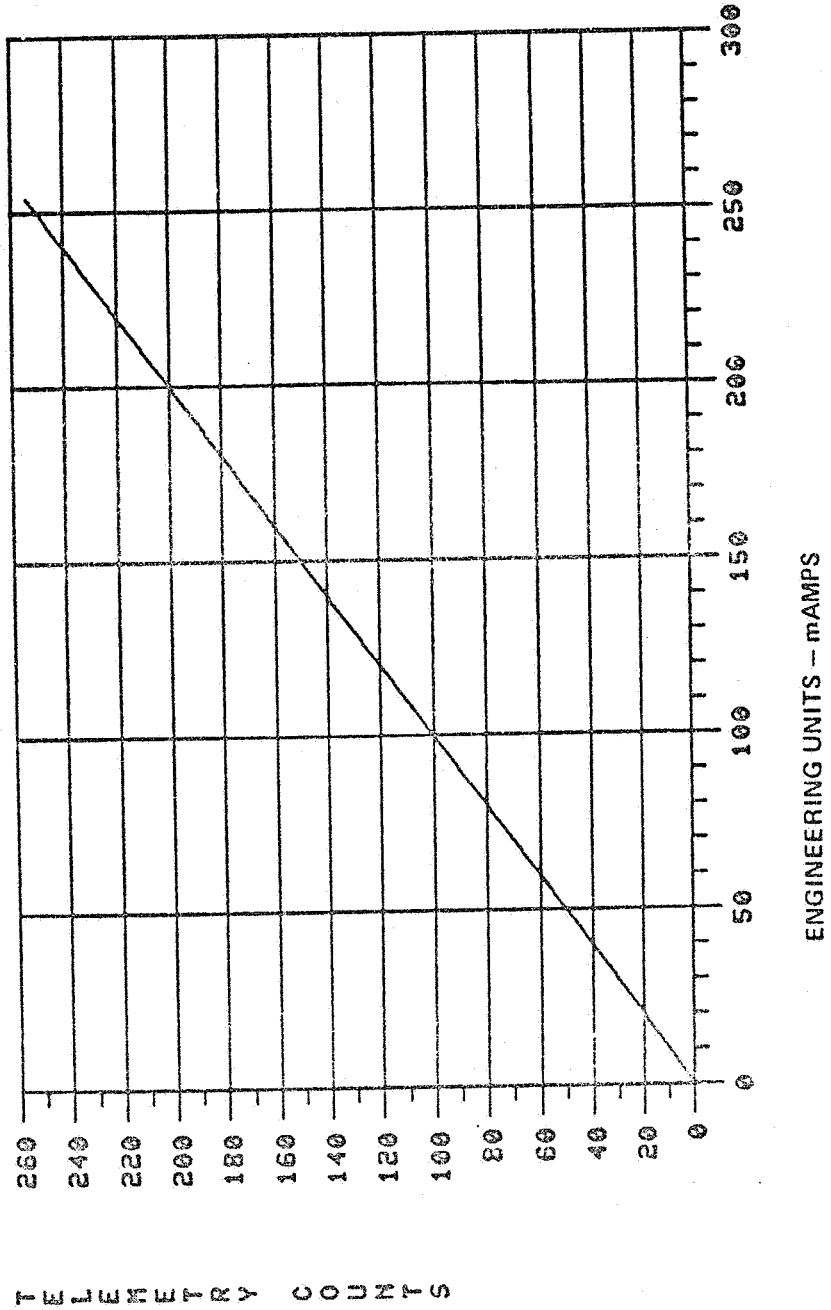
COUNTS VS ENGINEERING UNITS FOR MIOPSW10



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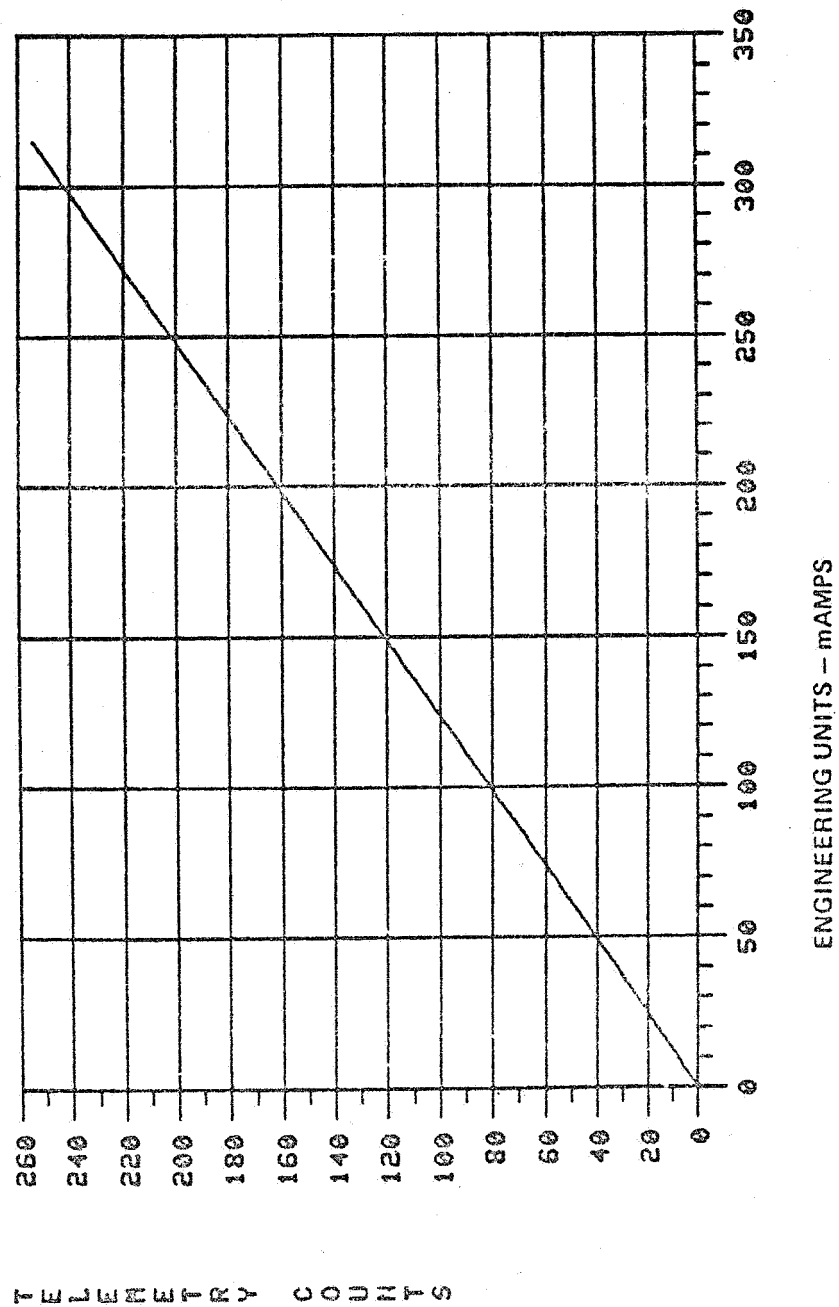
COUNTS VS ENGINEERING UNITS FOR MIOPSU20



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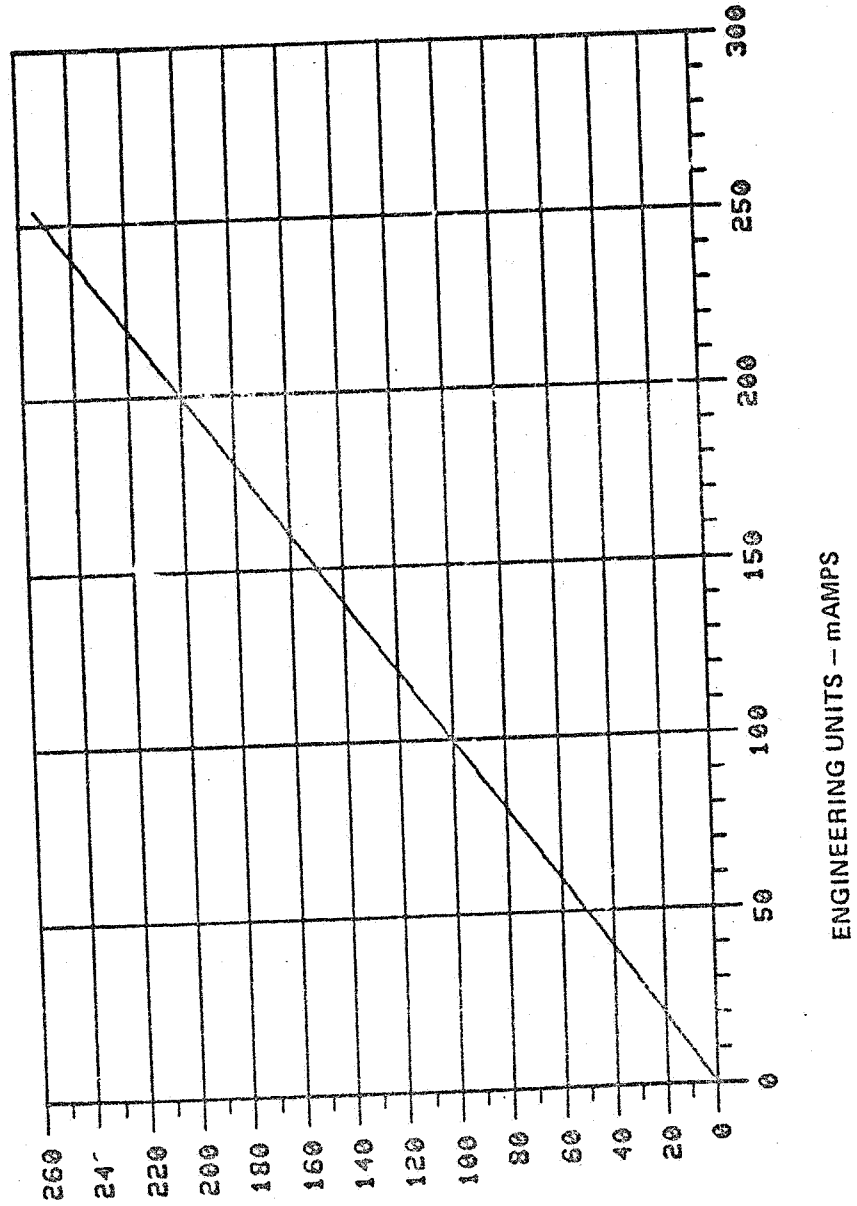
COUNTS VS ENGINEERING UNITS FOR HIOPSUL1



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COUNTS VS ENGINEERING UNITS FOR MIOPSUL2

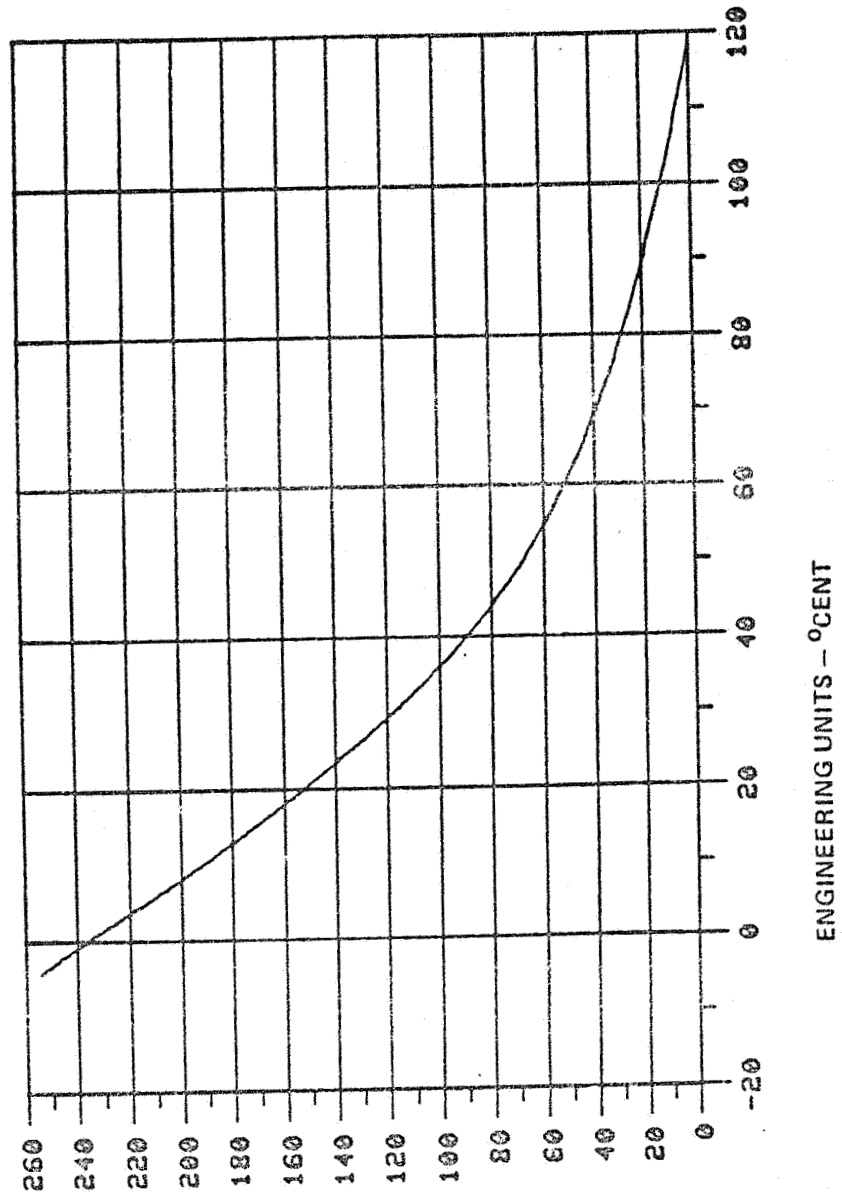


TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR MTELCUR



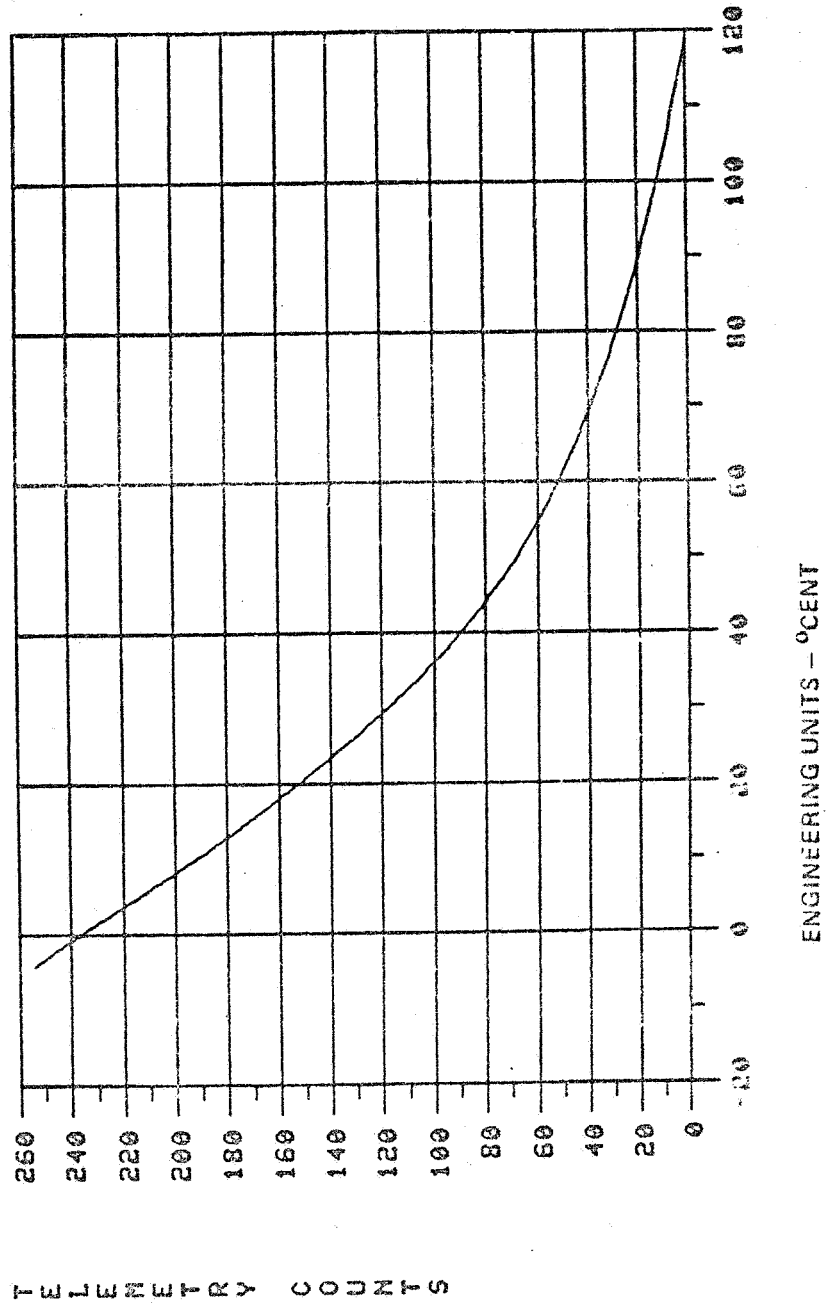
TELEMETRY COUNTS

ENGINEERING UNITS - °C

SVS-10266/3A
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June 1982

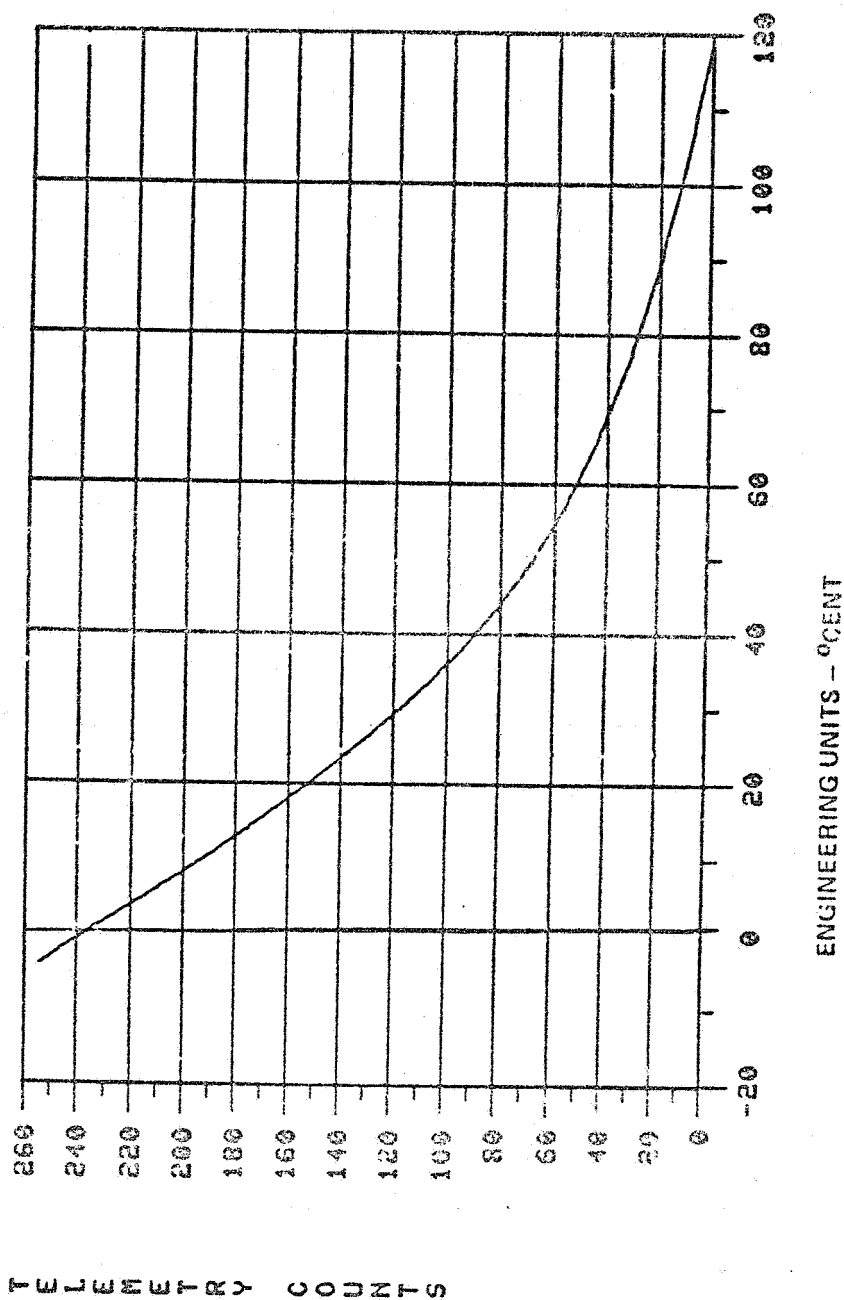
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COUNTS VS ENGINEERING UNITS FOR MTFIBOP1



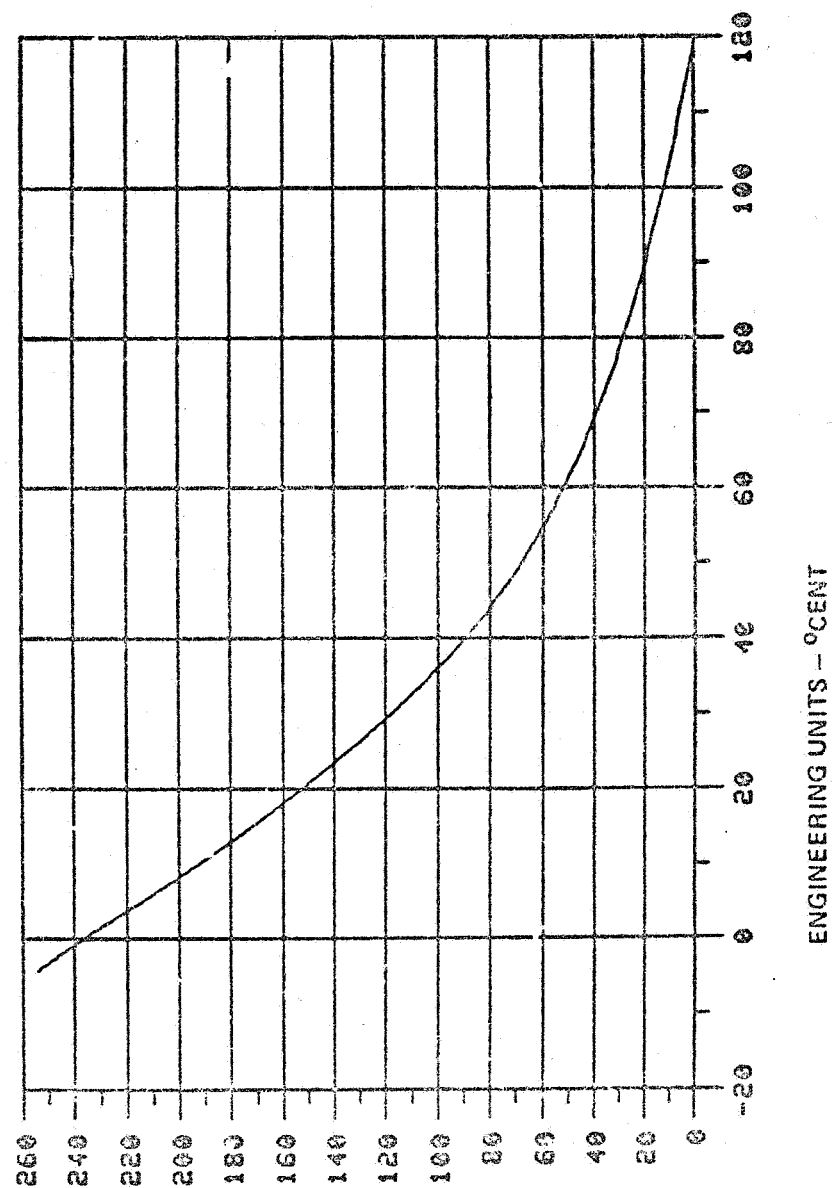
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COUNTS VS ENGINEERING UNITS FOR HTFIBOP2



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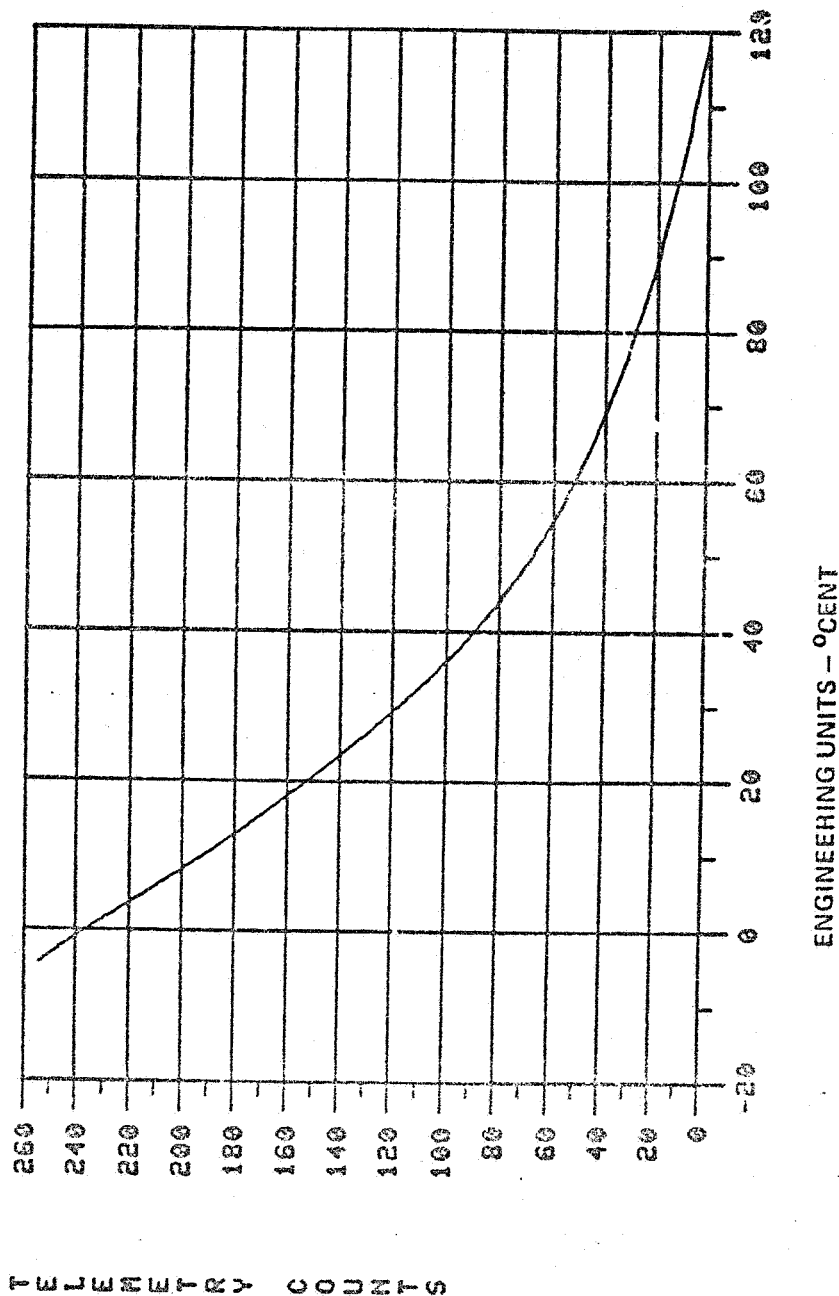
COUNTS VS ENGINEERING UNITS FOR HTRUX



TELEMETRY COUNTS

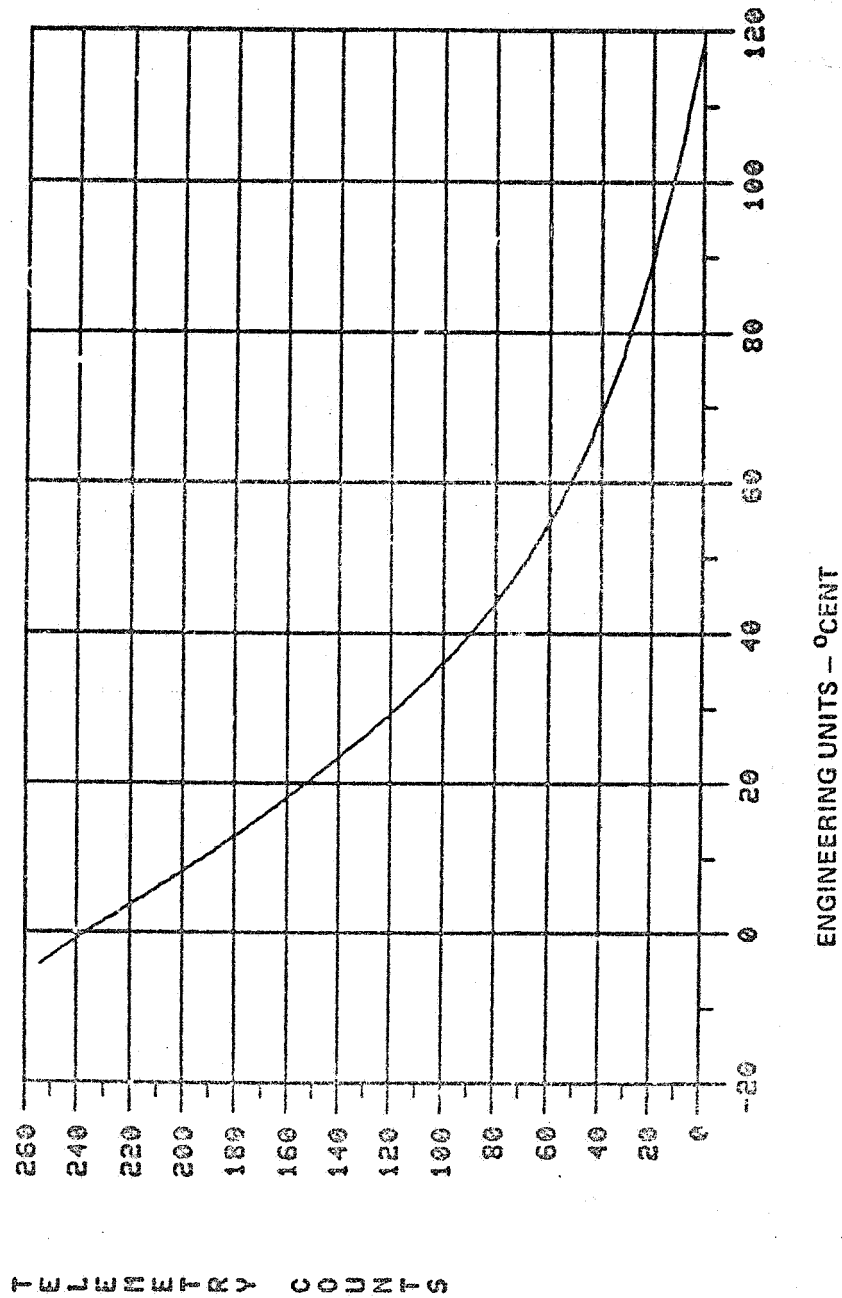
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COUNTS VS ENGINEERING UNITS FOR MTPPS1



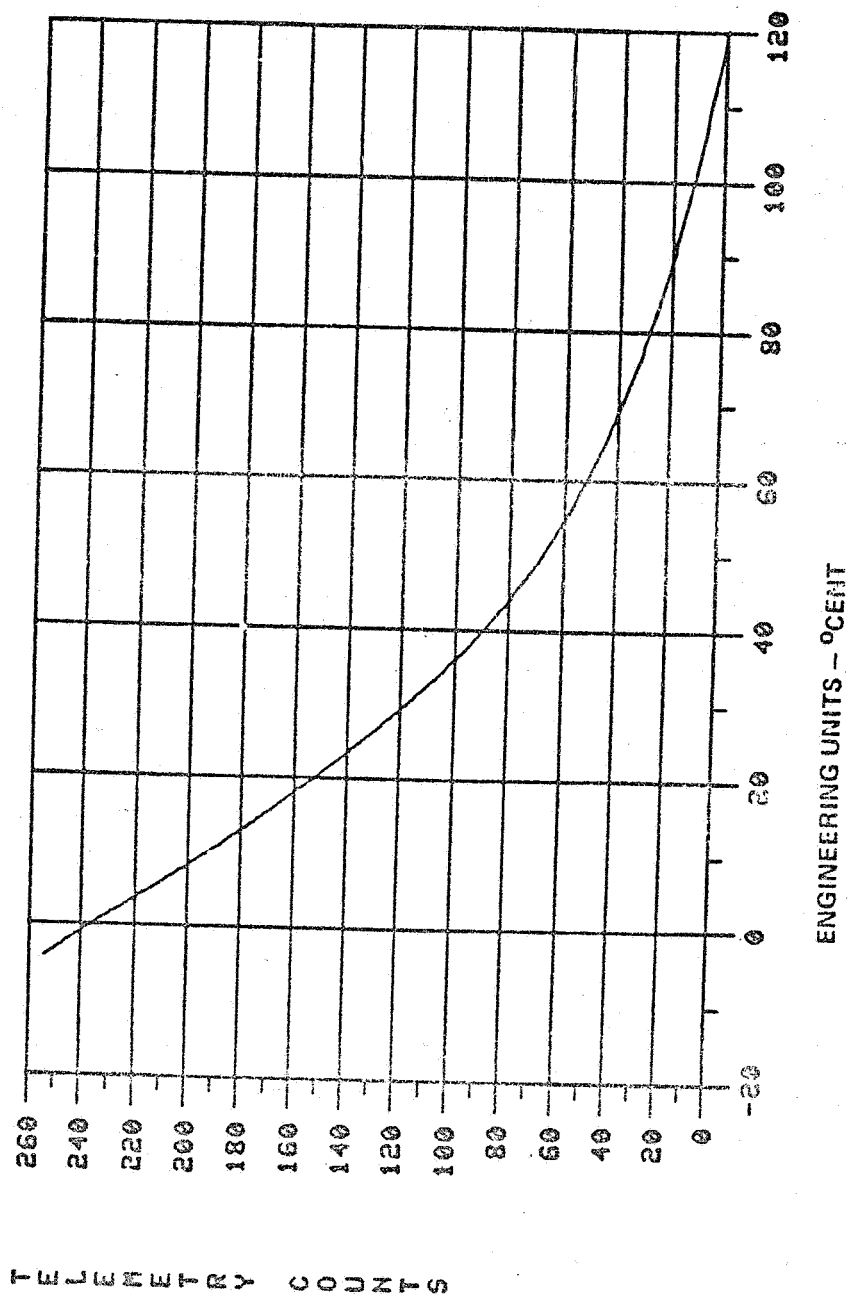
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COUNTS VS ENGINEERING UNITS FOR NTPPS2



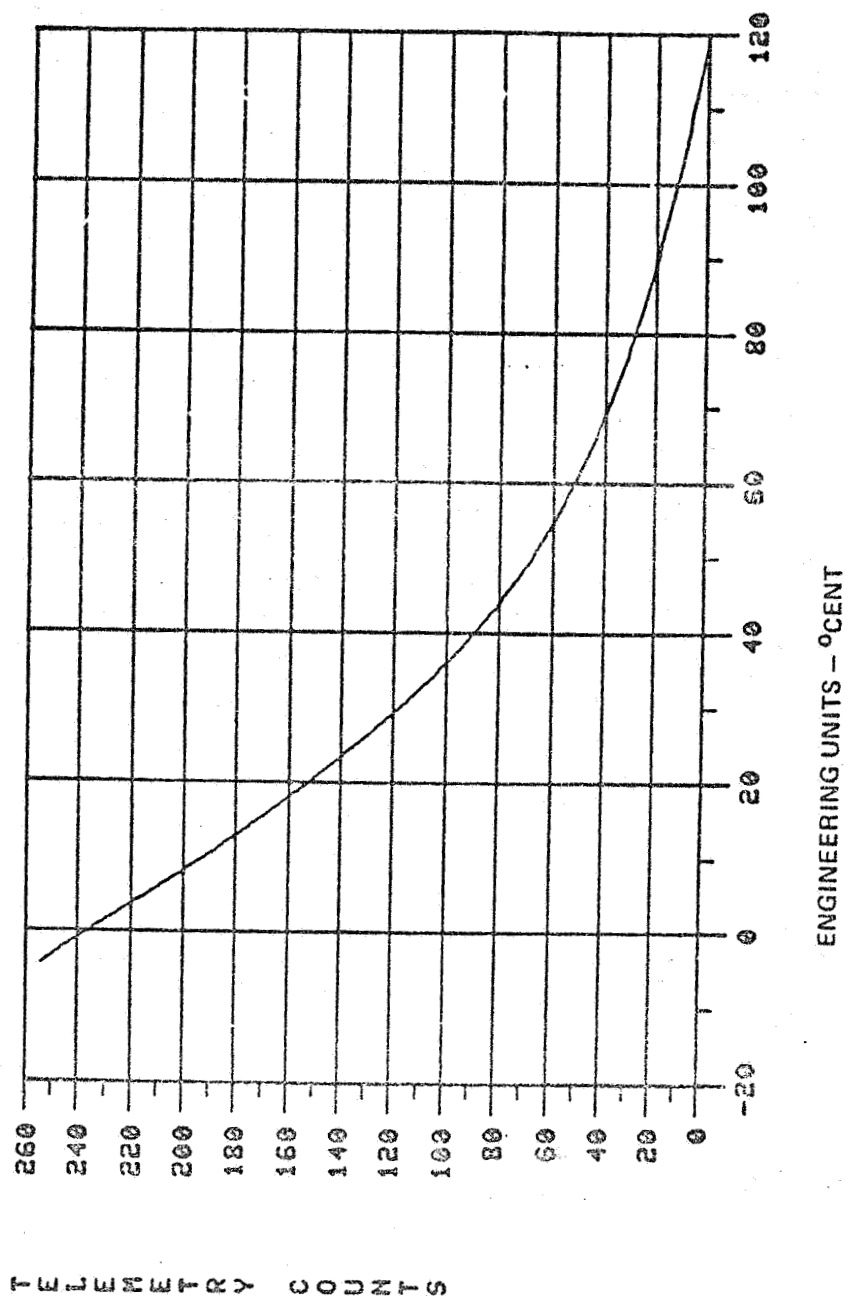
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COUNTS VS ENGINEERING UNITS FOR NTRADPS



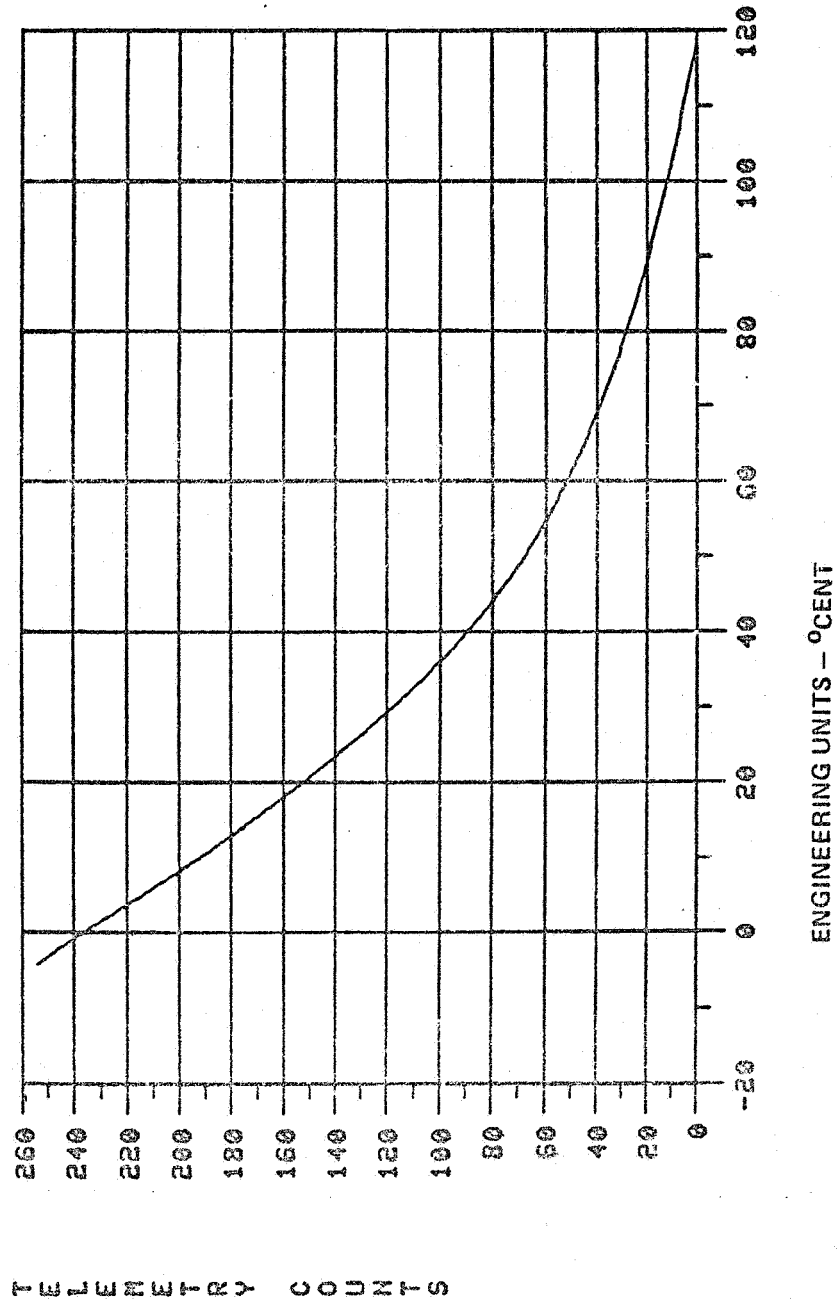
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COUNTS VS ENGINEERING UNITS FOR HTSCMRCL



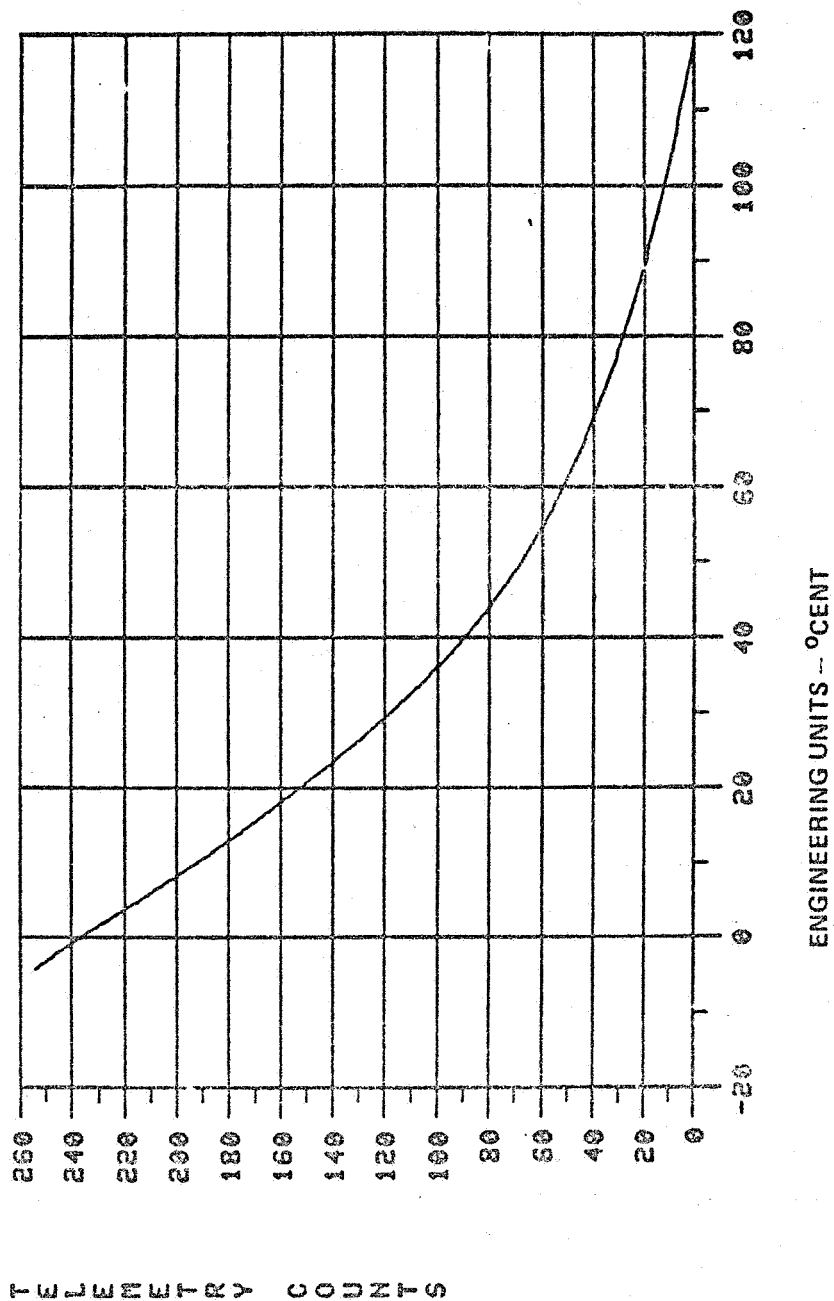
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COUNTS VS ENGINEERING UNITS FOR HTSCHREL



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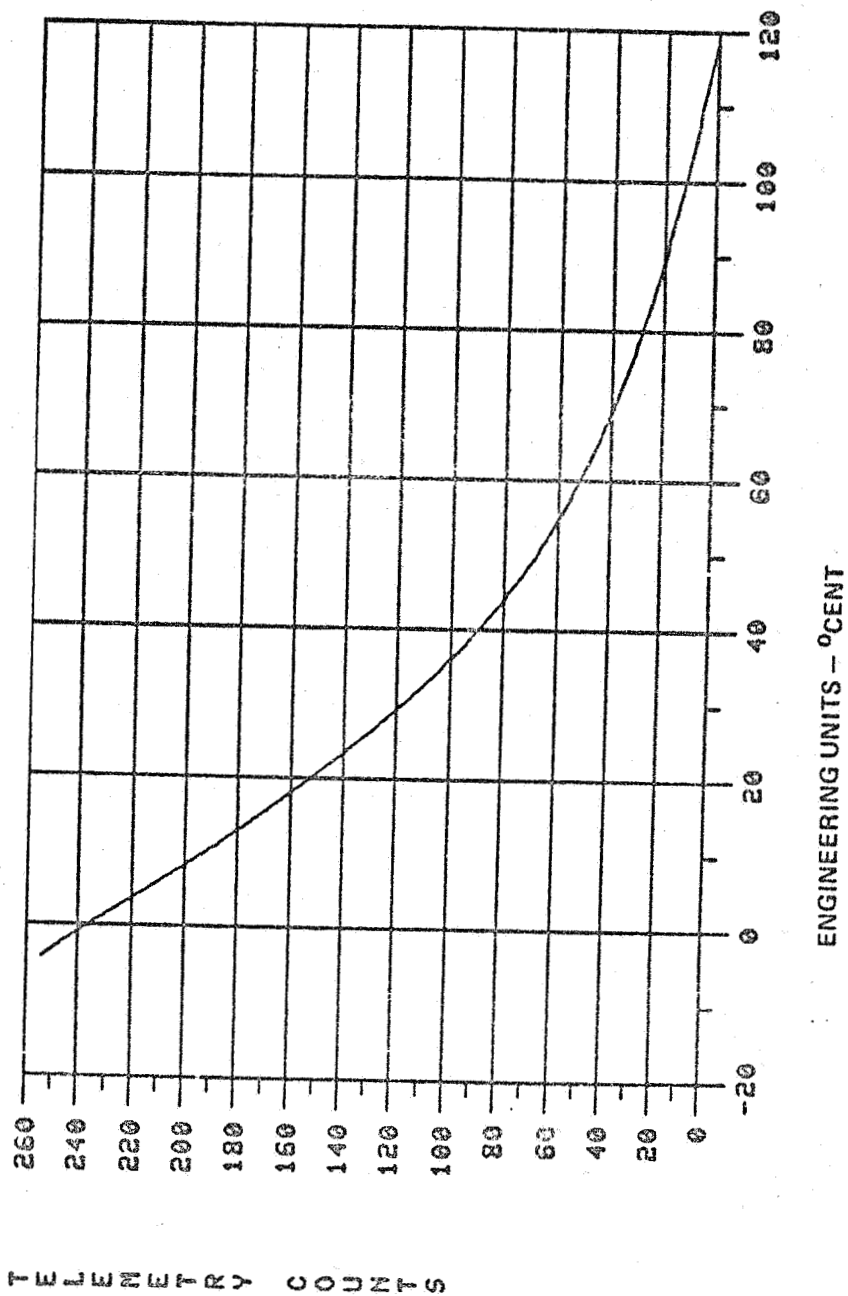
COUNTS VS ENGINEERING UNITS FOR MTSCMRHG



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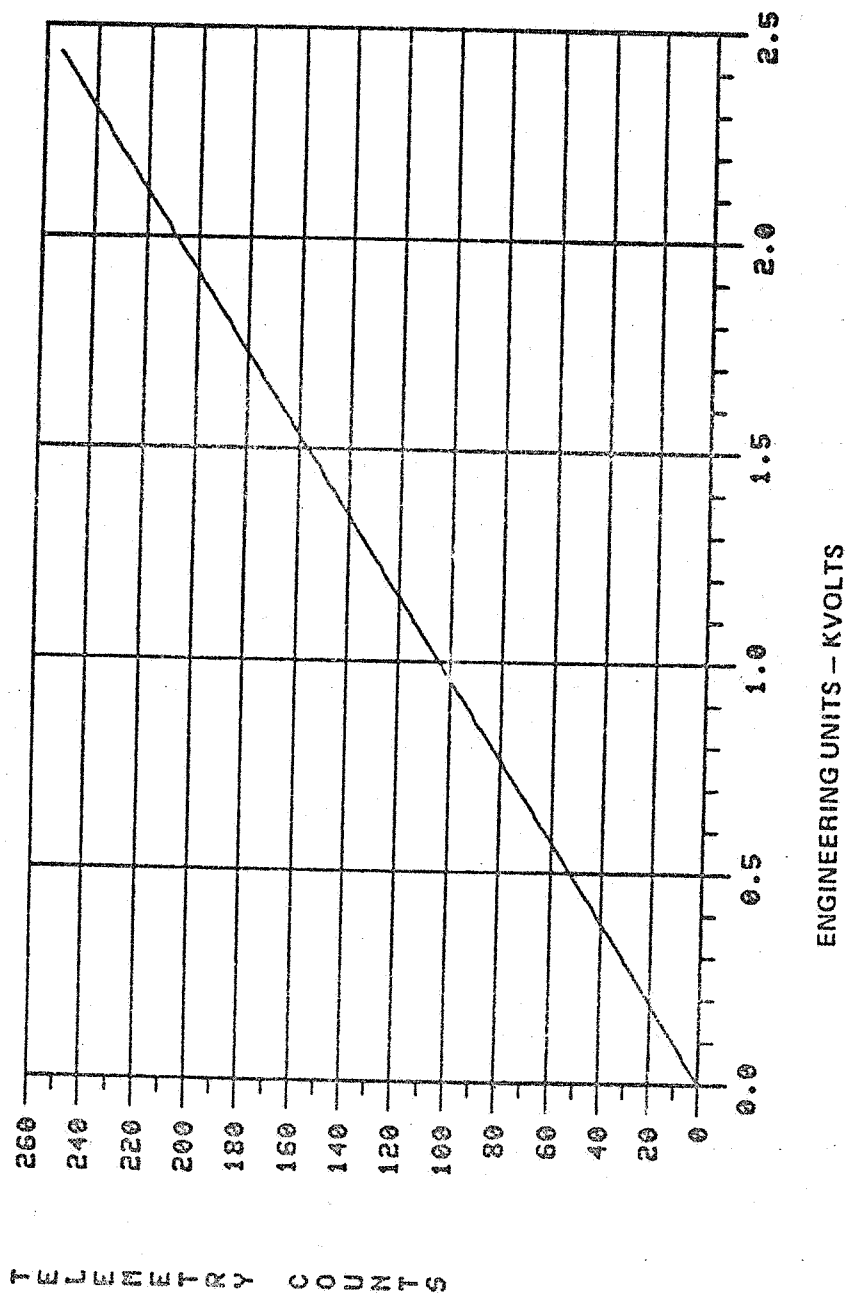
COUNTS VS ENGINEERING UNITS FOR MTSCMRRG



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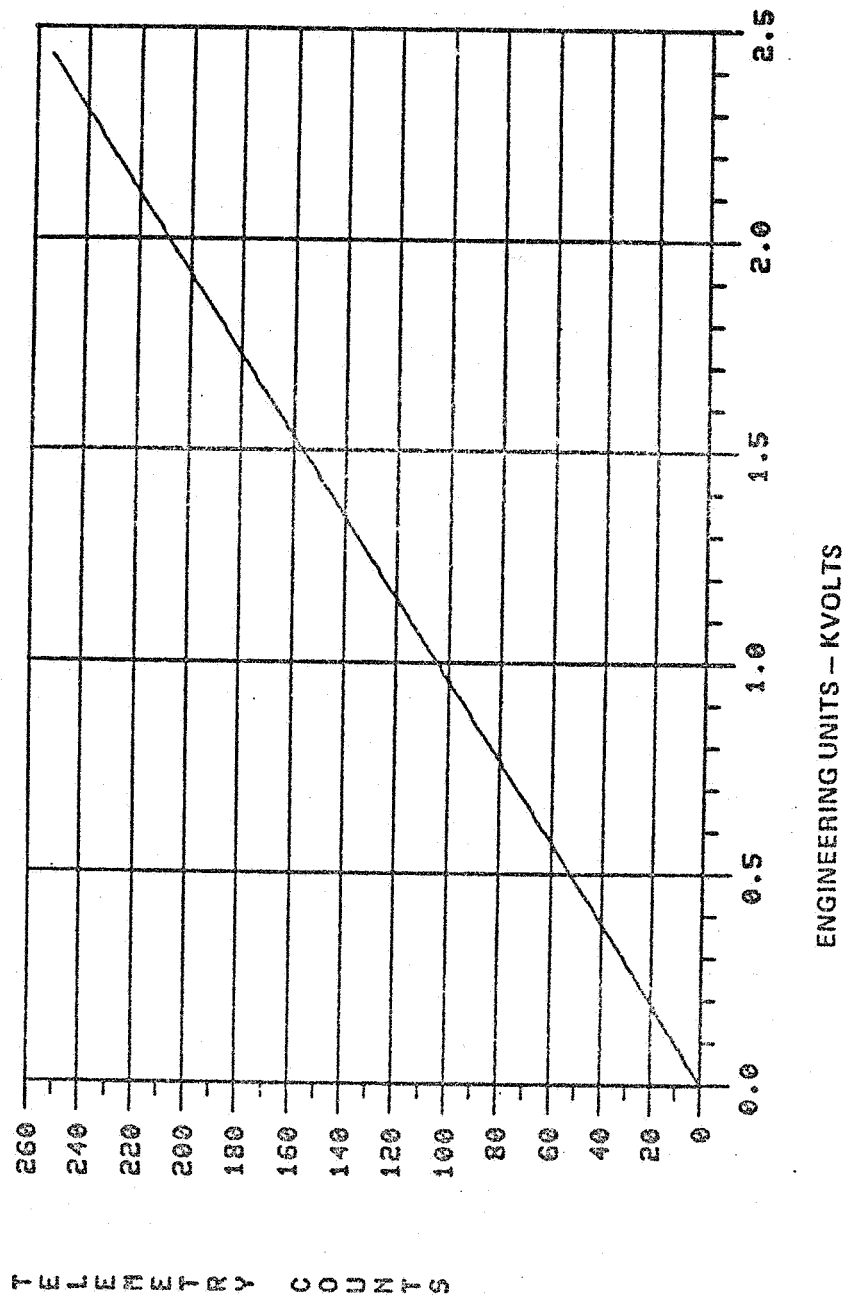
COUNTS VS ENGINEERING UNITS FOR MUBIHUAO



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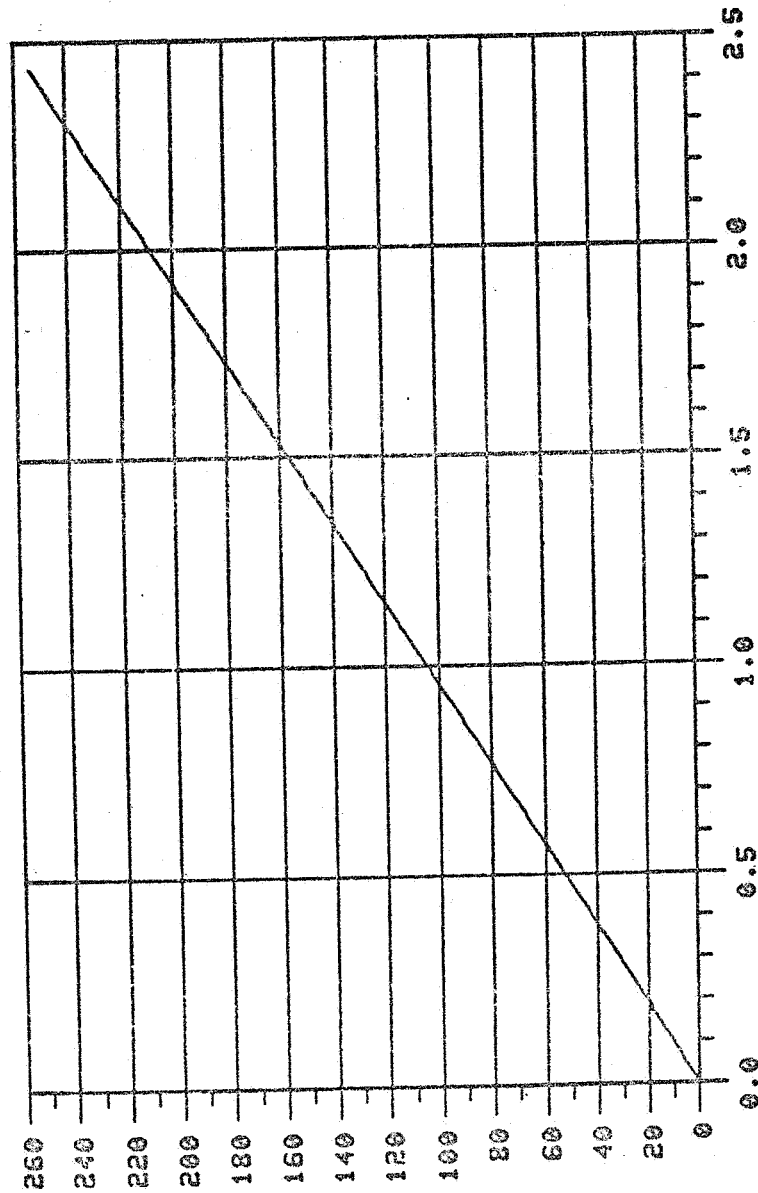
COUNTS VS ENGINEERING UNITS FOR MUB1HUB0



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COUNTS US ENGINEERING UNITS FOR HUB2HVA0



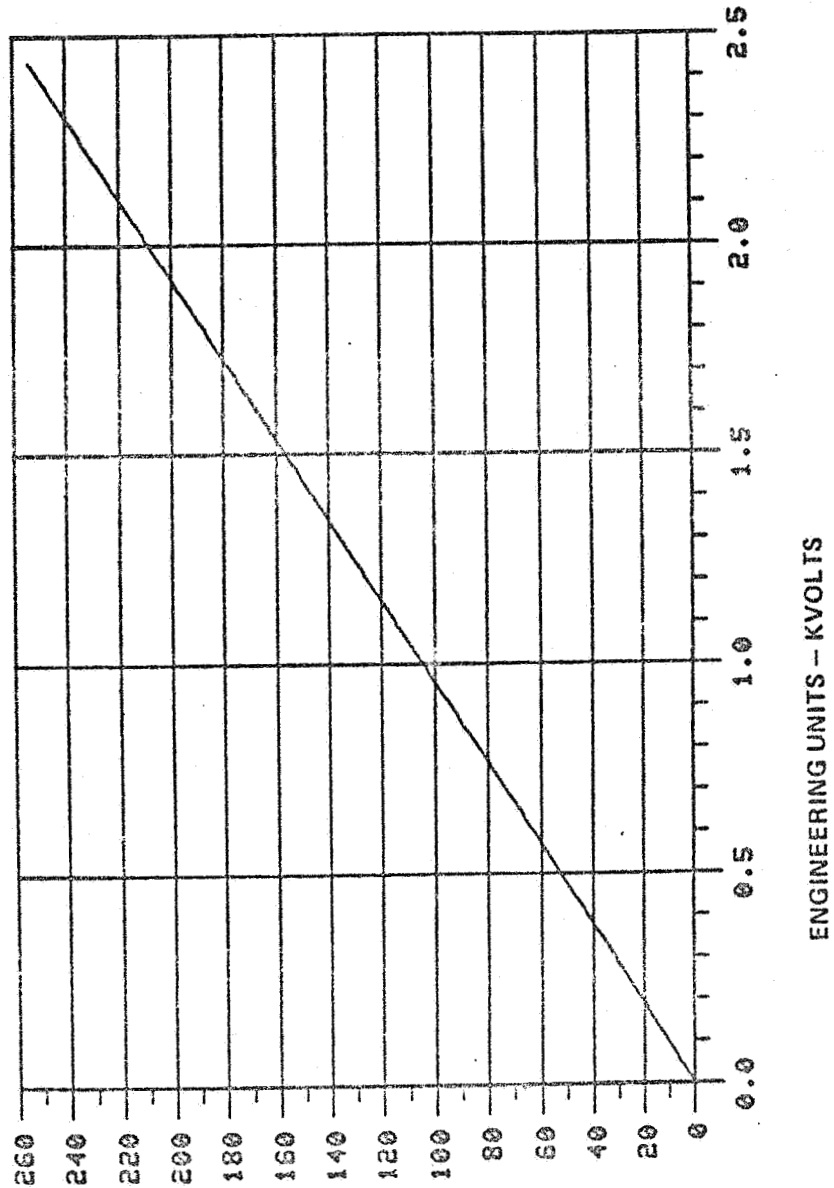
ENGINEERING UNITS - KVOLTS

TELEMETRY COUNTS

SVS-10266/3A
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COUNTS VS ENGINEERING UNITS FOR NUBEHUBO



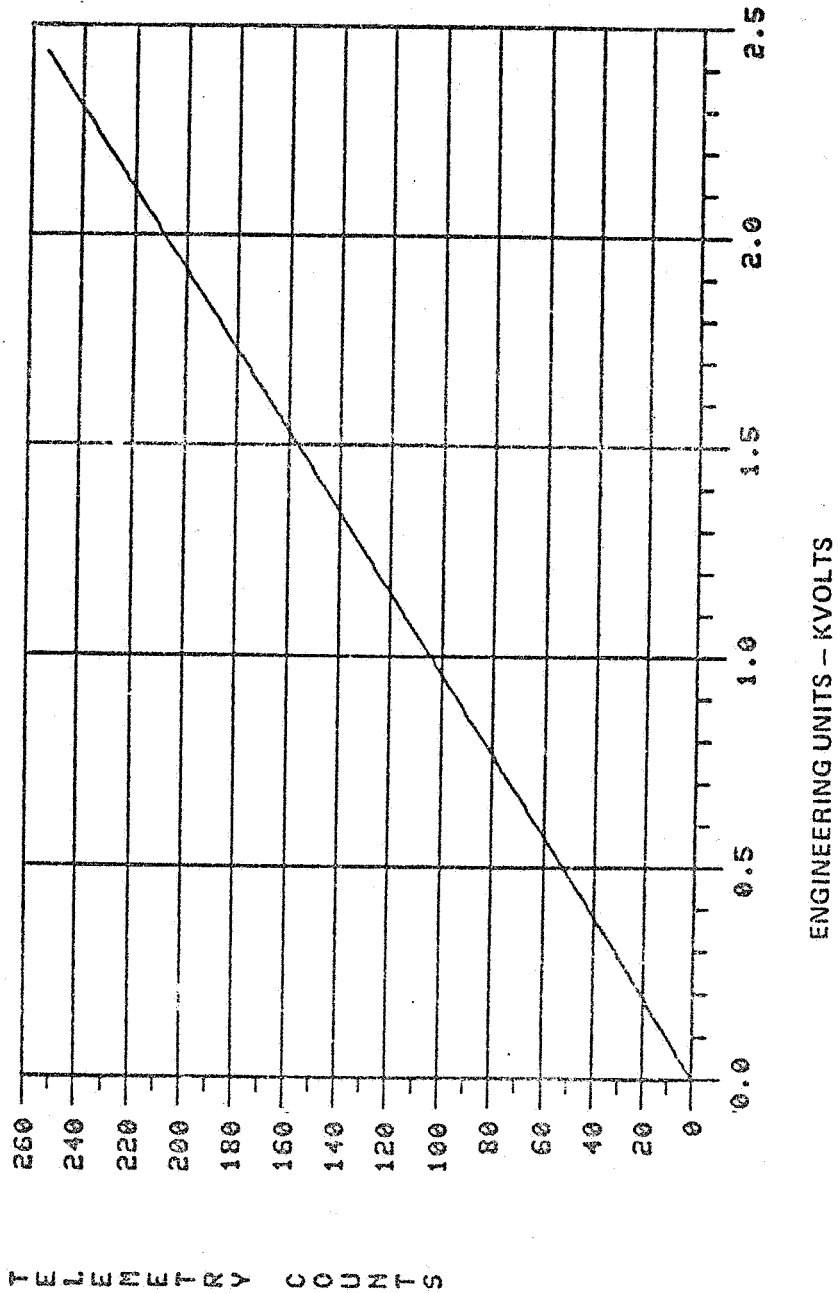
TELEMETRY COUNTS

ENGINEERING UNITS - KVOLTS

SVS-10266/3A
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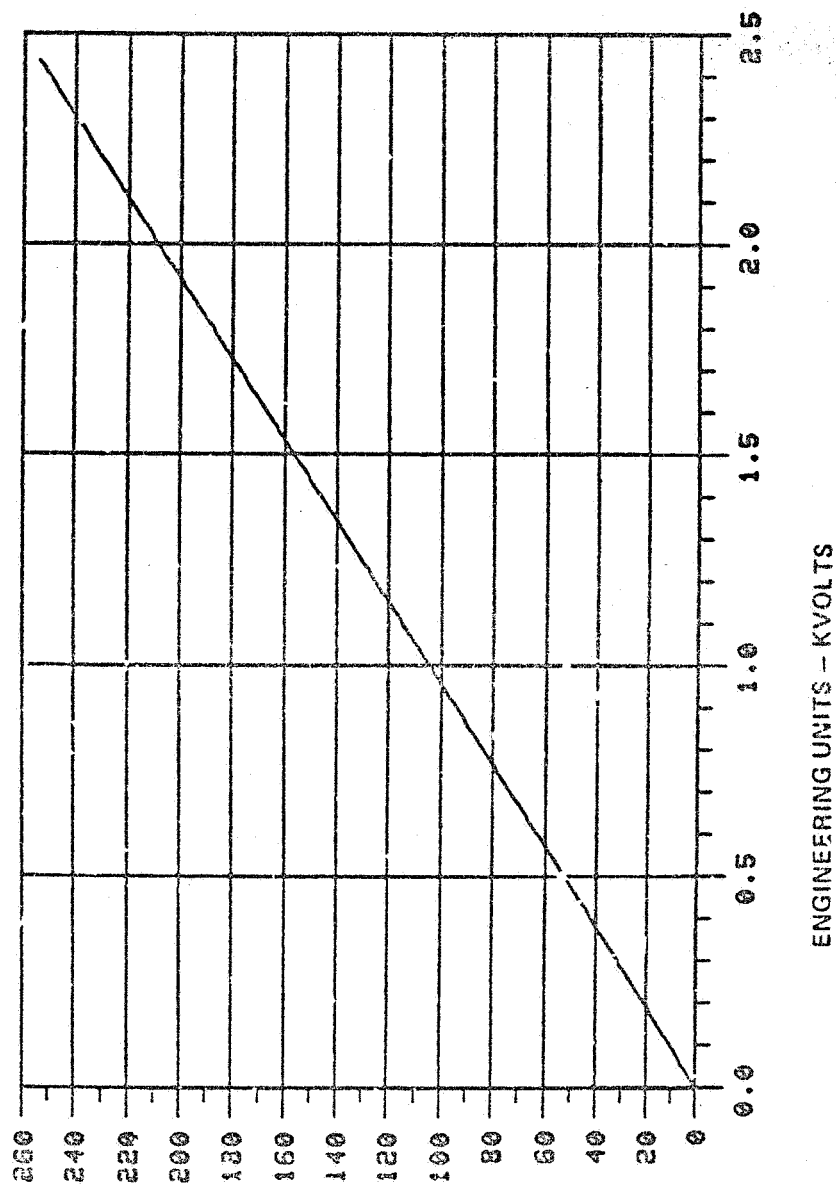
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COUNTS VS ENGINEERING UNITS FOR RUB3HUA0



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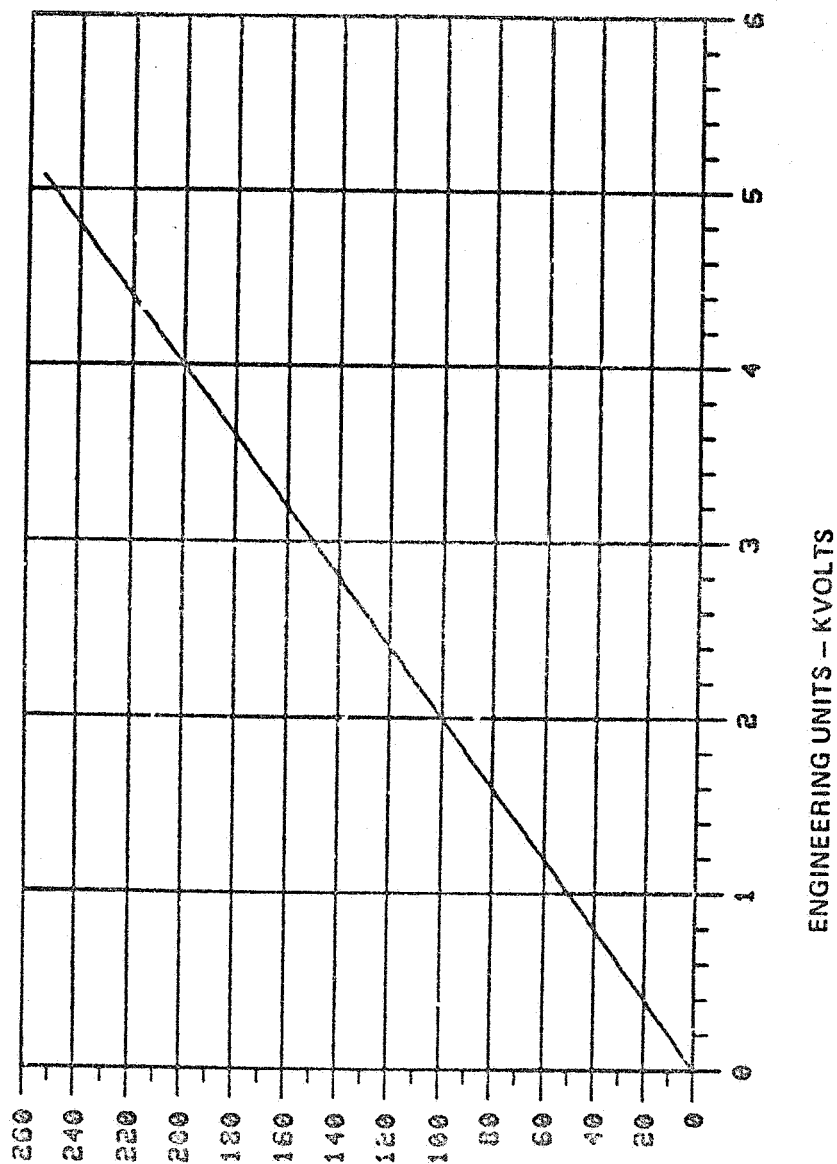
COUNTS VS ENGINEERING UNITS FOR HUB3HUB0



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR RUDDID15

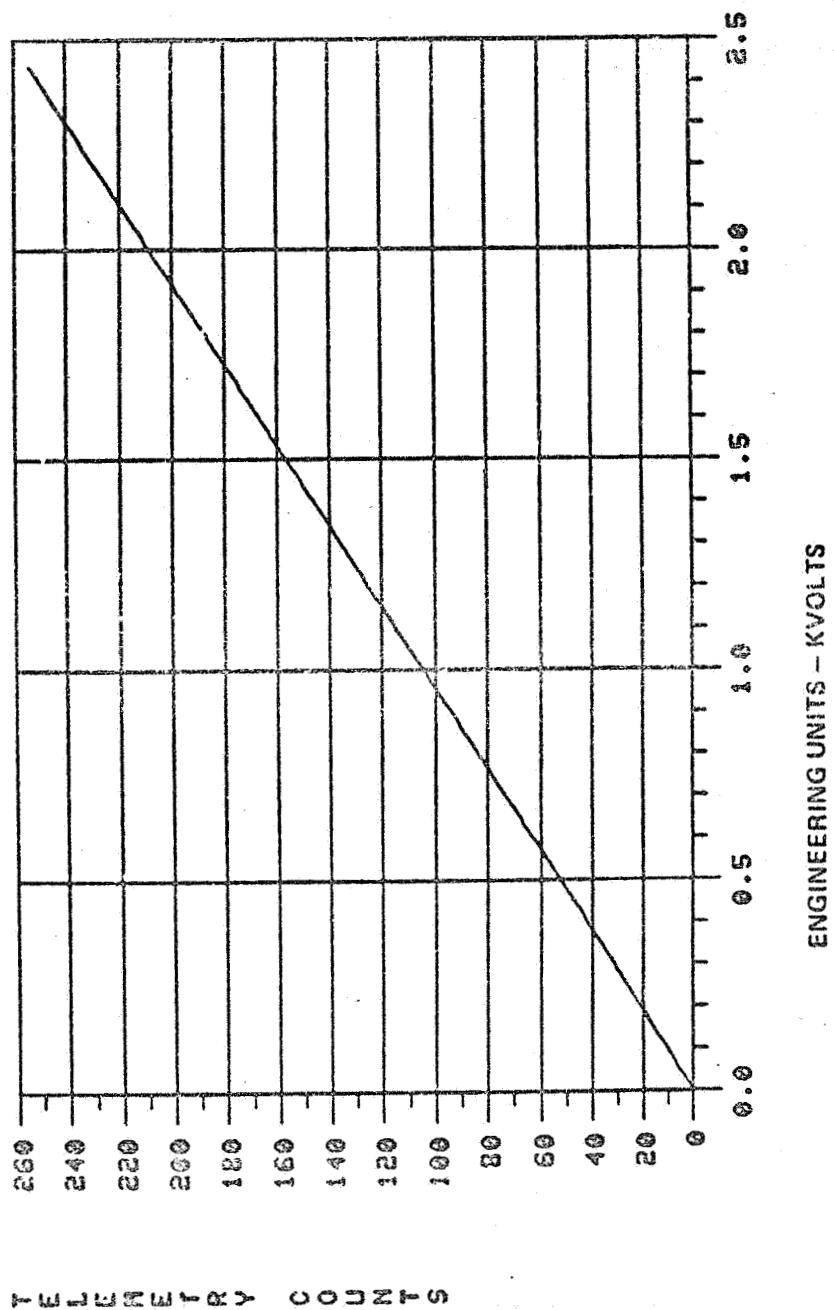


ENGINEERING UNITS - KVOLTS

TELEMETRY COUNTS

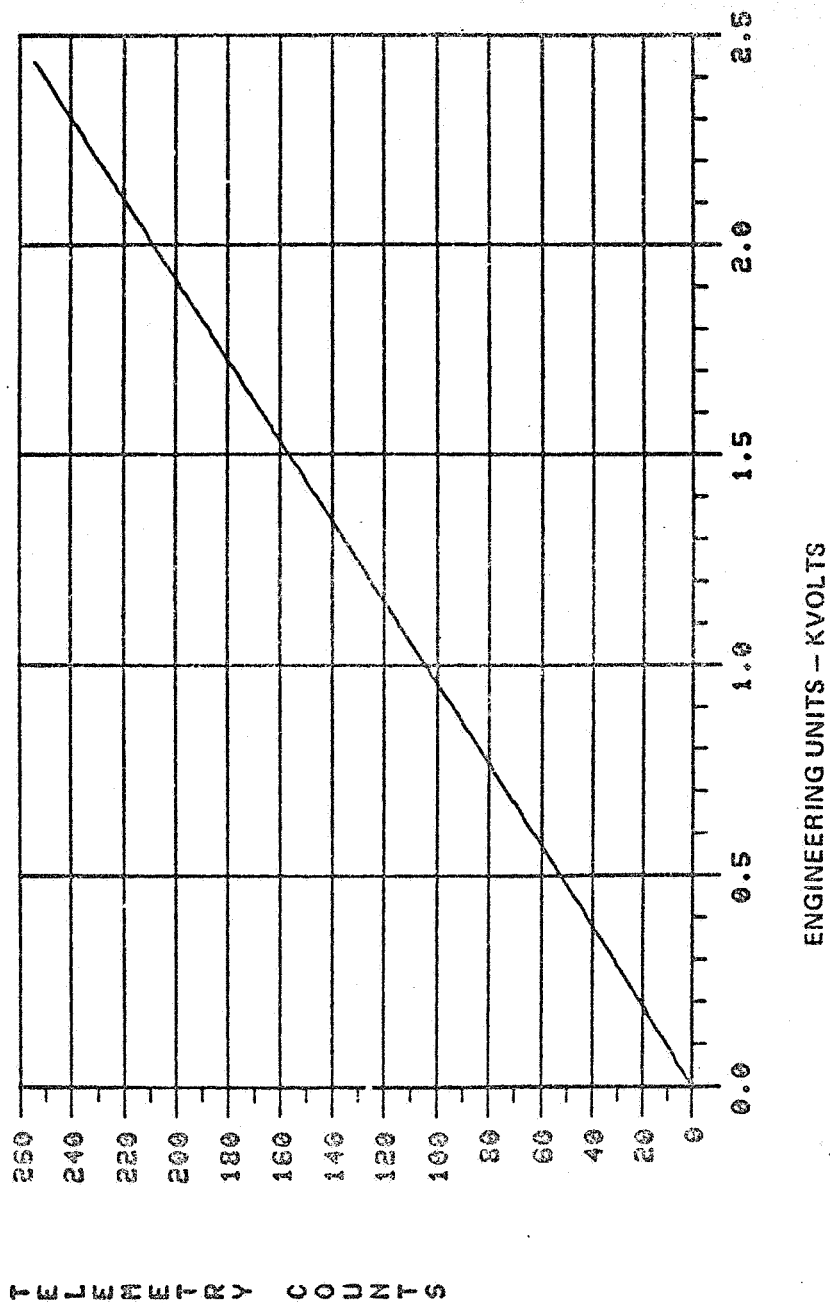
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COUNTS VS ENGINEERING UNITS FOR RUDDIHUA



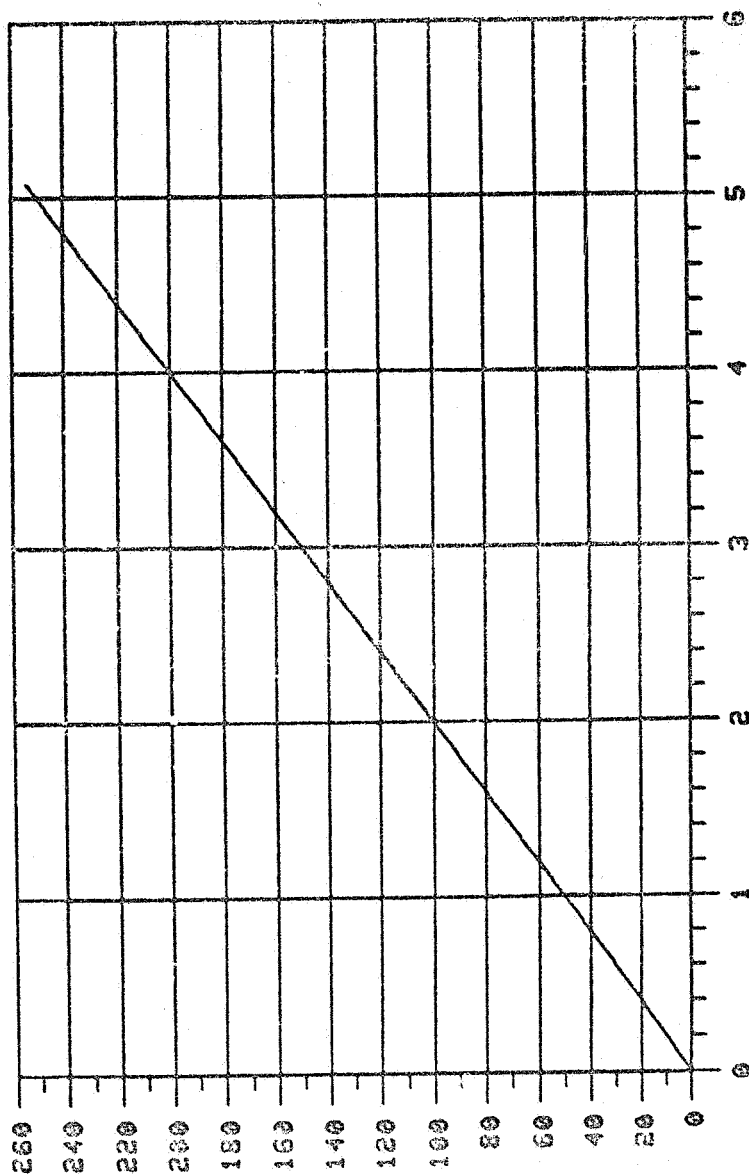
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COUNTS VS ENGINEERING UNITS FOR RUDD1HUB



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COUNTS VS ENGINEERING UNITS FOR RUDD2B15

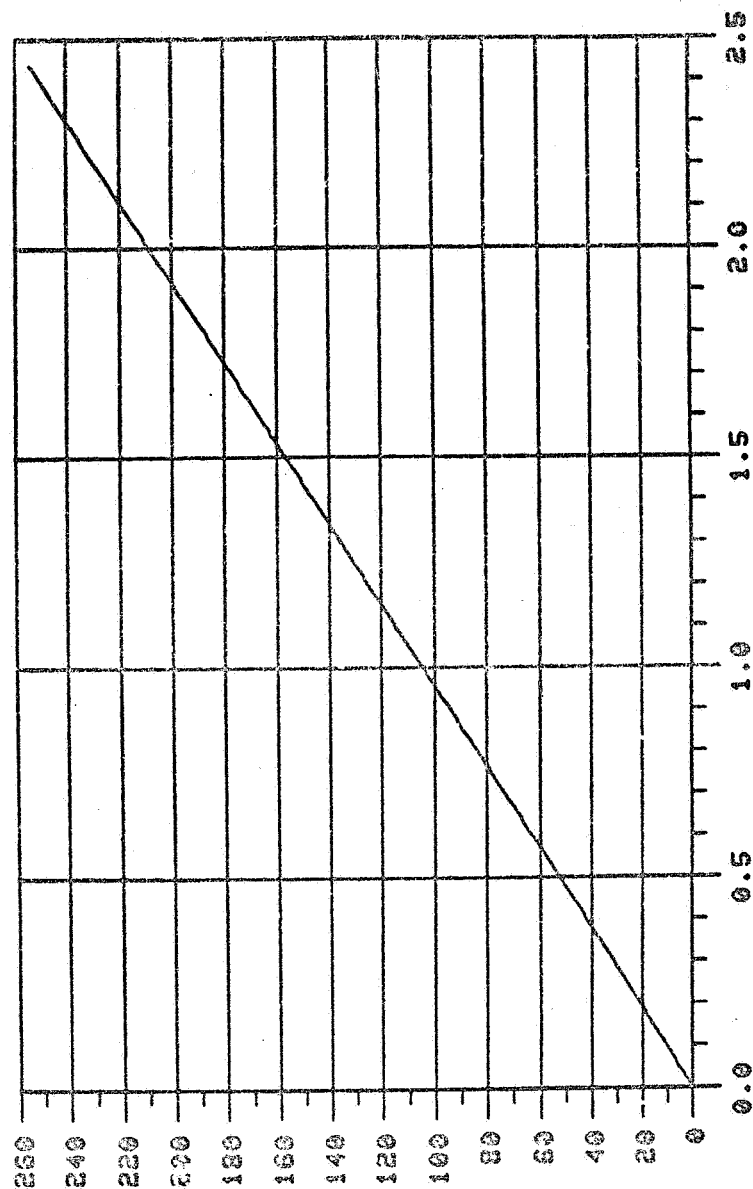


ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR RUDDERHUA

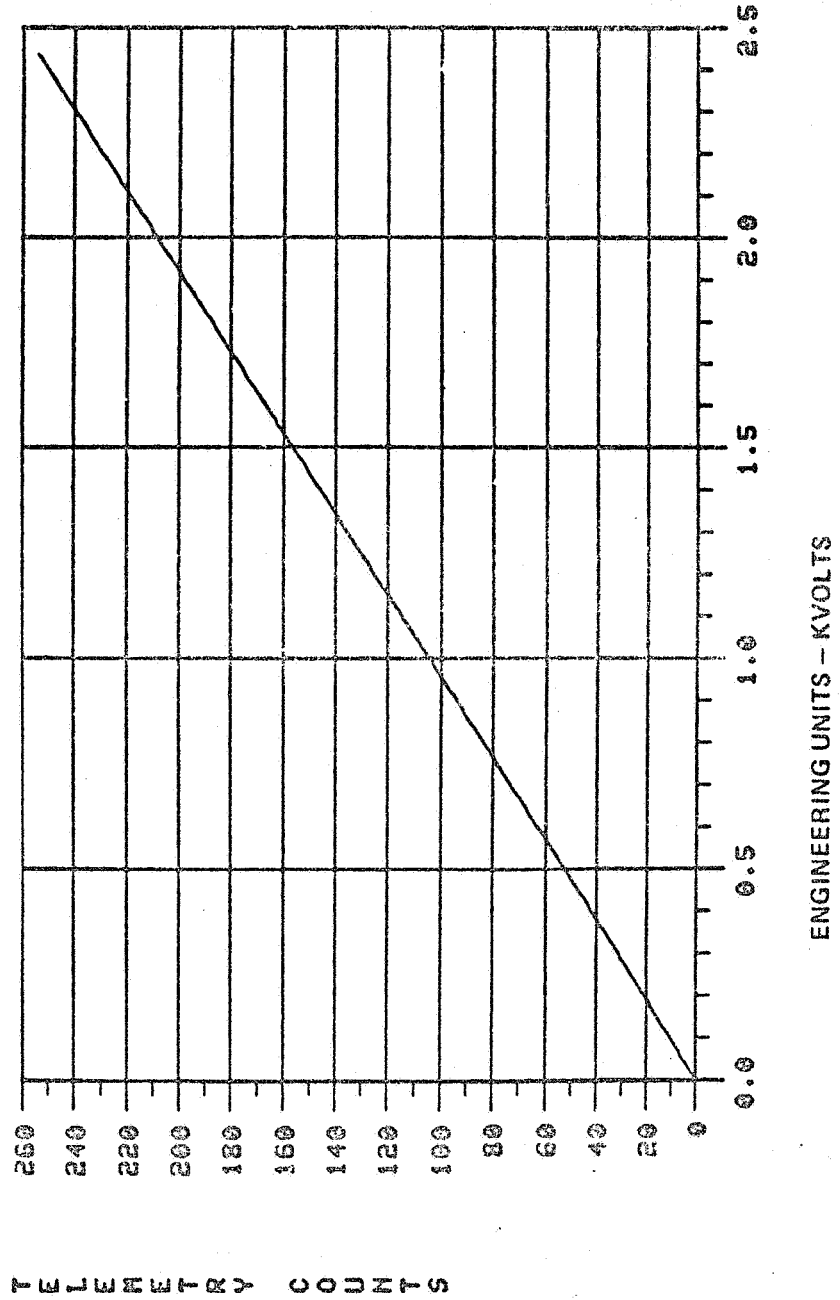


ENGINEERING UNITS - KVOLTS

TELEMETRY COUNTS

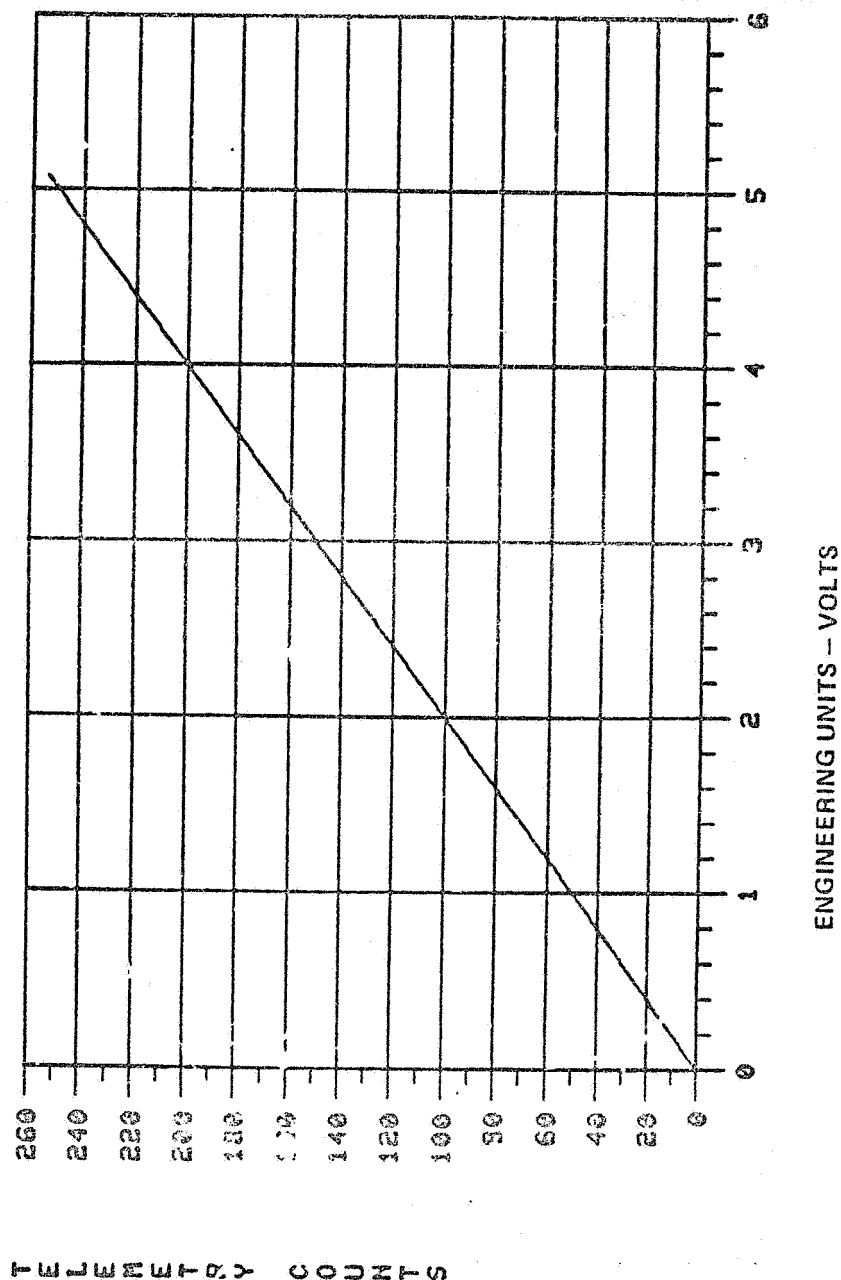
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COUNTS US ENGINEERING UNITS FOR MVB2HUB



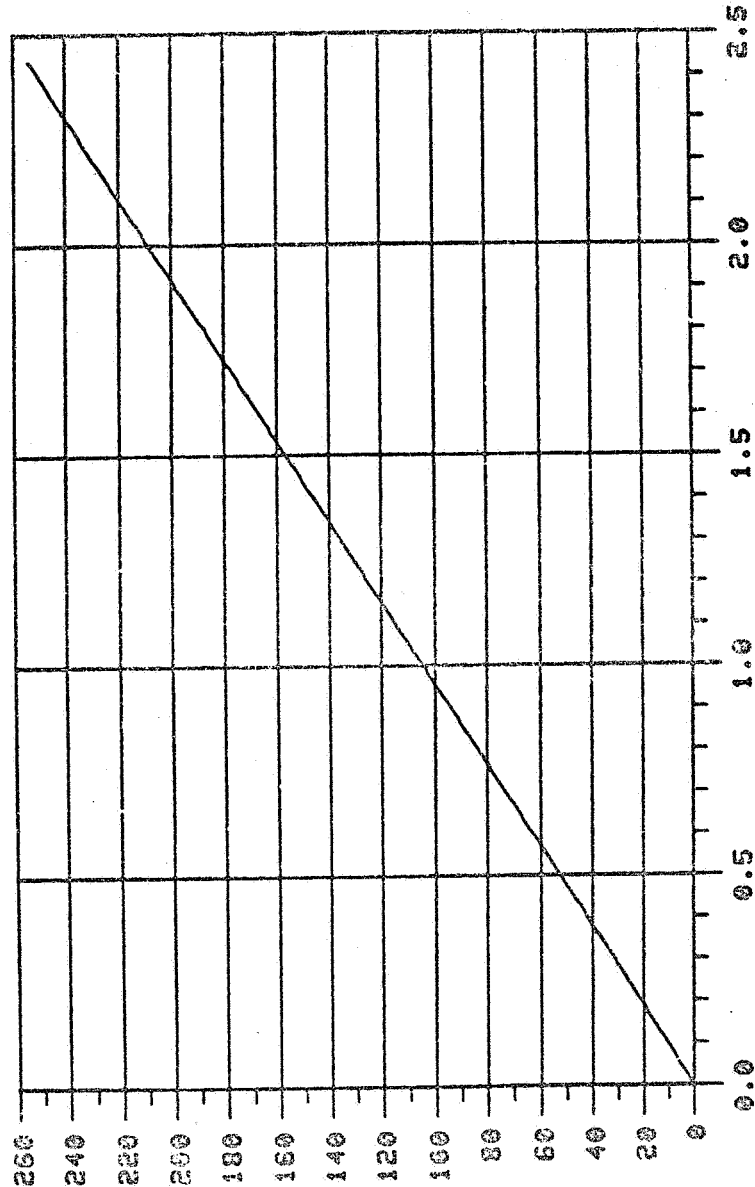
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COUNTS VS ENGINEERING UNITS FOR RUDD3B15



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COUNTS VS ENGINEERING UNITS FOR RUDDSHVA

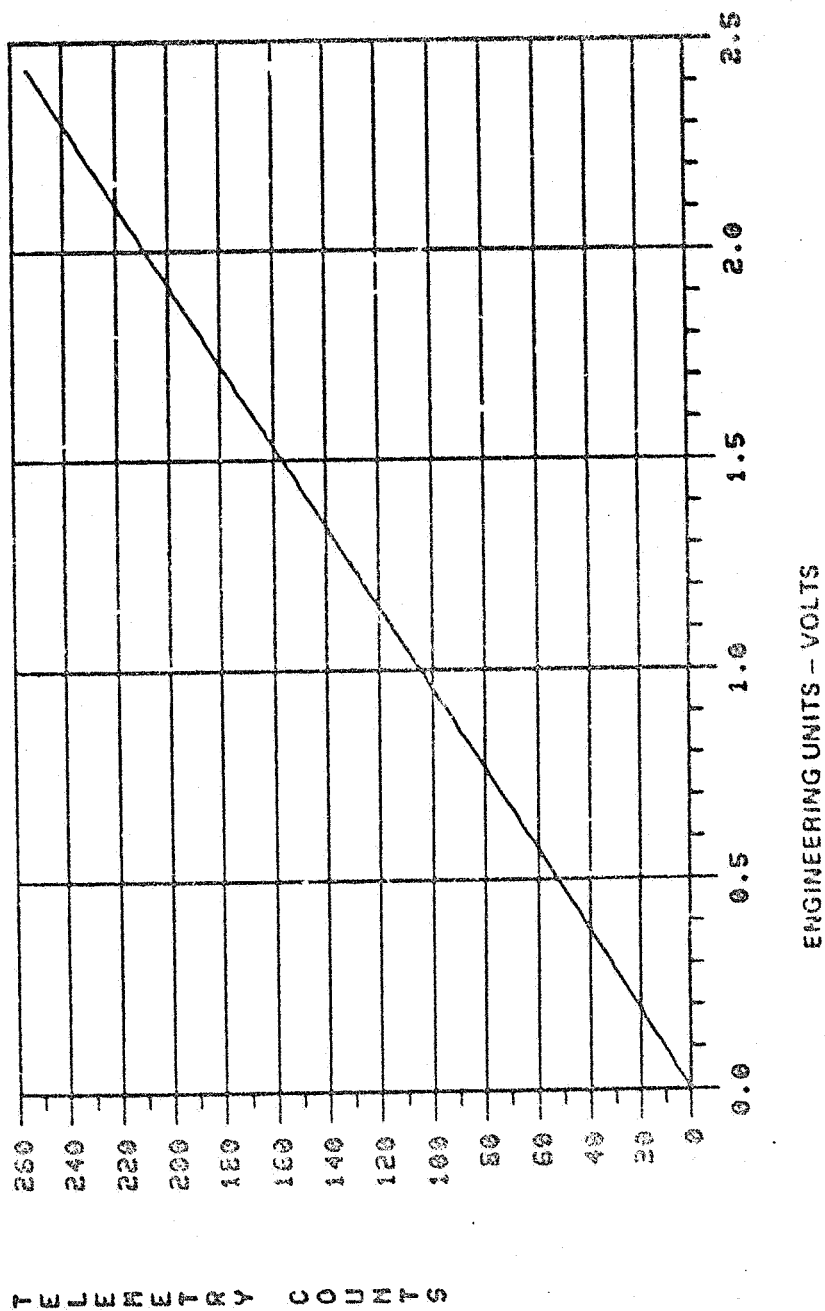


ENGINEERING UNITS - KVOLTS

TELEMETRY COUNTS

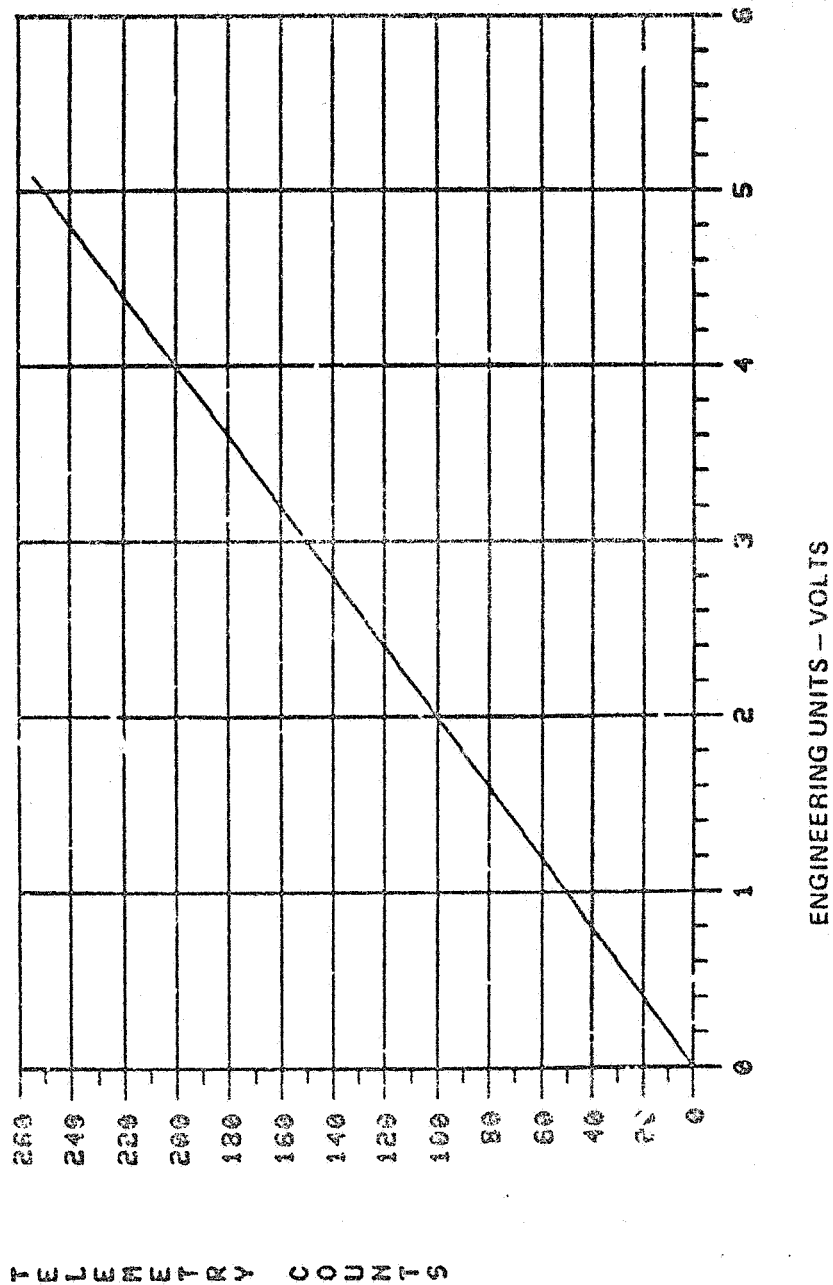
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COUNTS VS ENGINEERING UNITS FOR MUDD3HUB



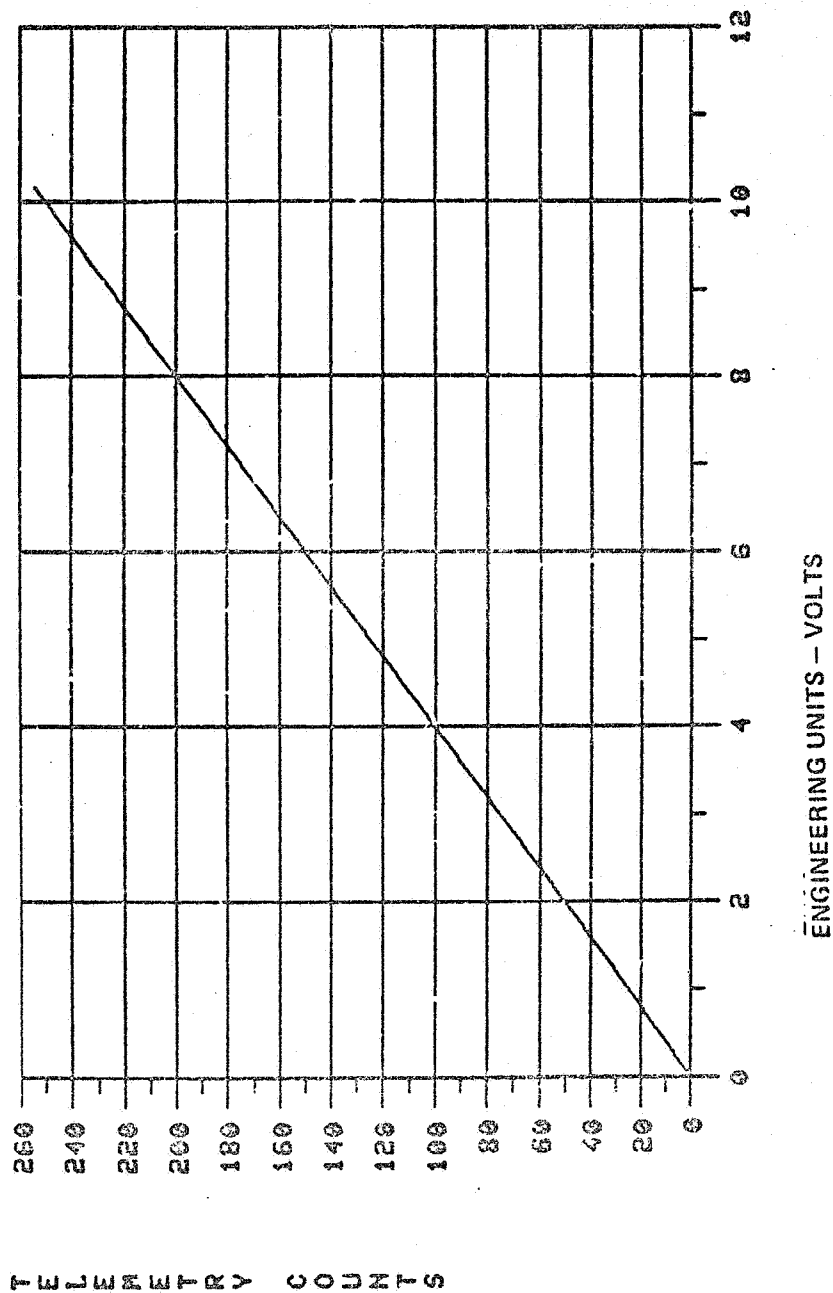
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COUNTS VS ENGINEERING UNITS FOR RUDDA015



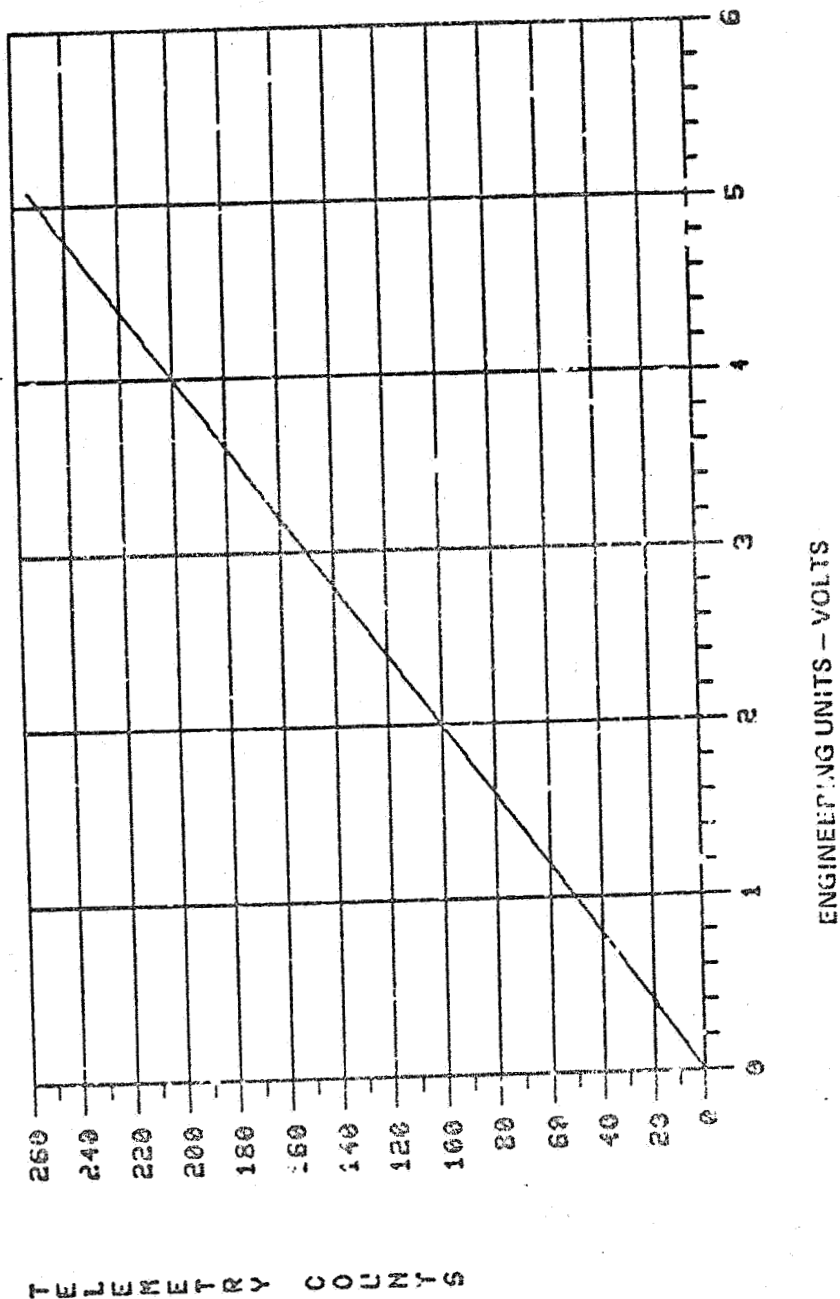
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COUNTS VS ENGINEERING UNITS FOR HUHUXPOS



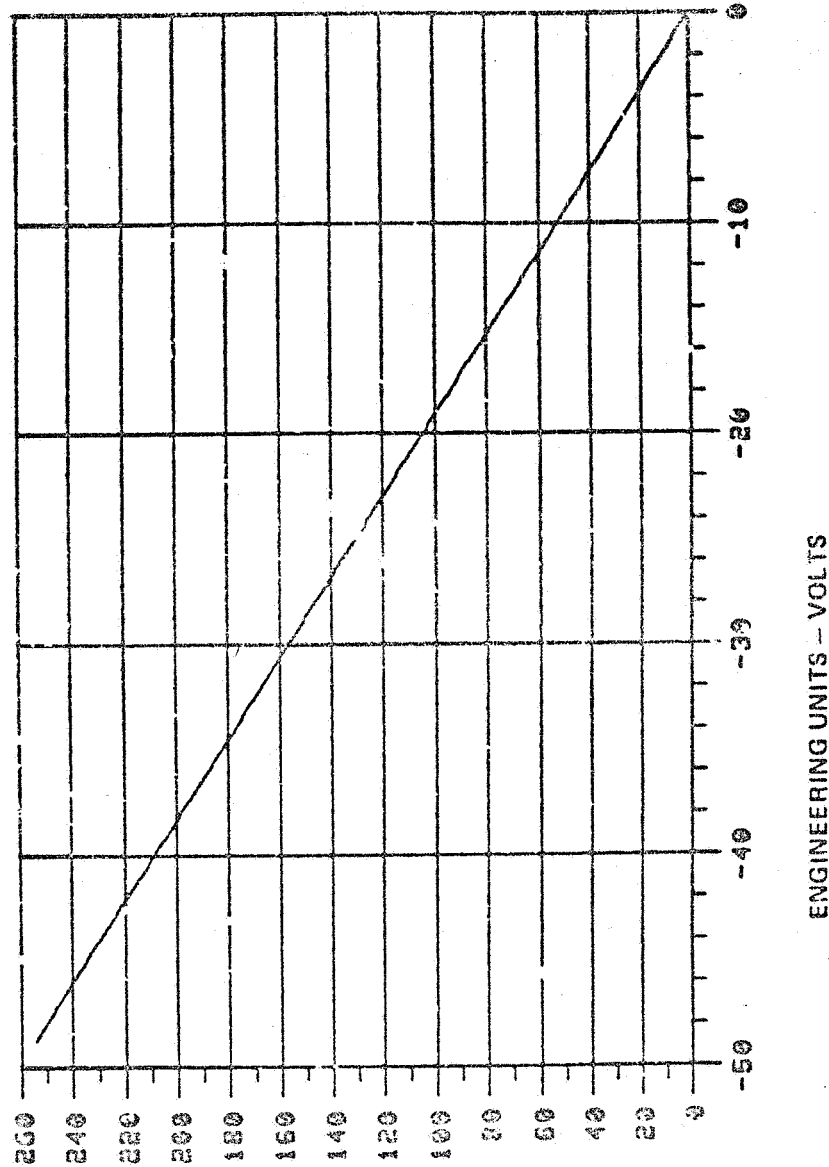
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COUNTS VS ENGINEERING UNITS FOR MUP12N06



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COUNTS VS ENGINEERING UNITS FOR HUP5IN24

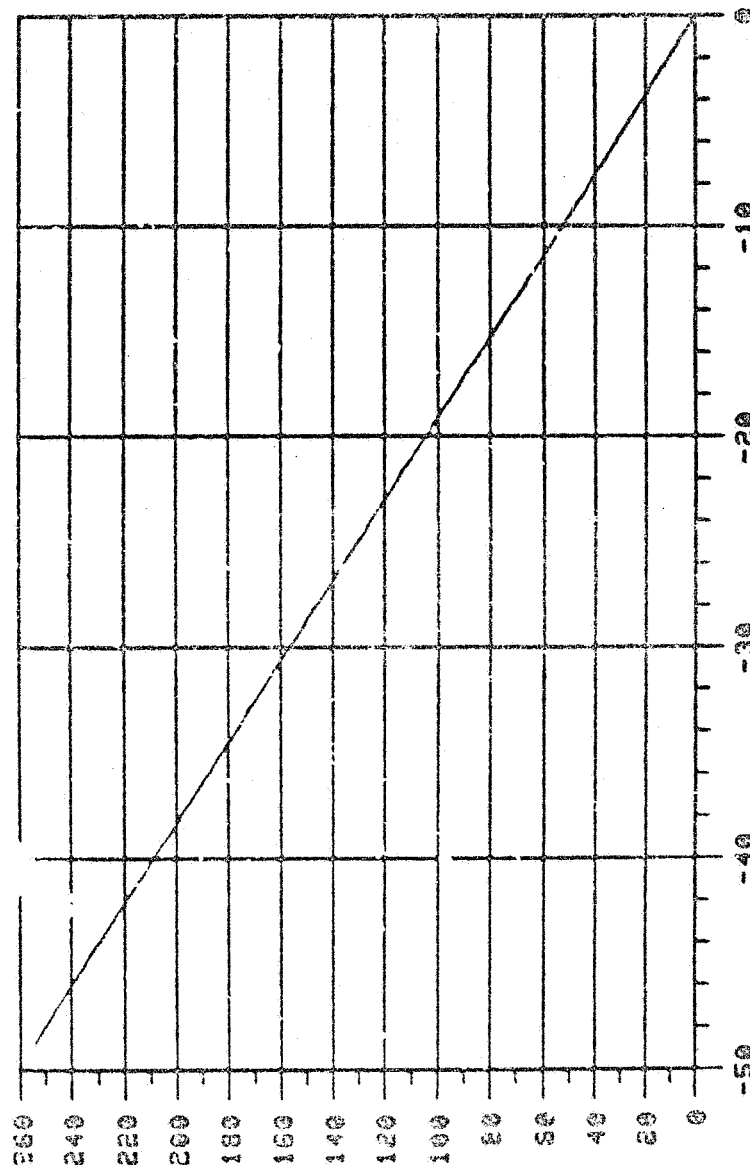


TELEMETRY COUNTS

ENGINEERING UNITS - VOLTS

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COUNTS VS ENGINEERING UNITS FOR RUPSINO



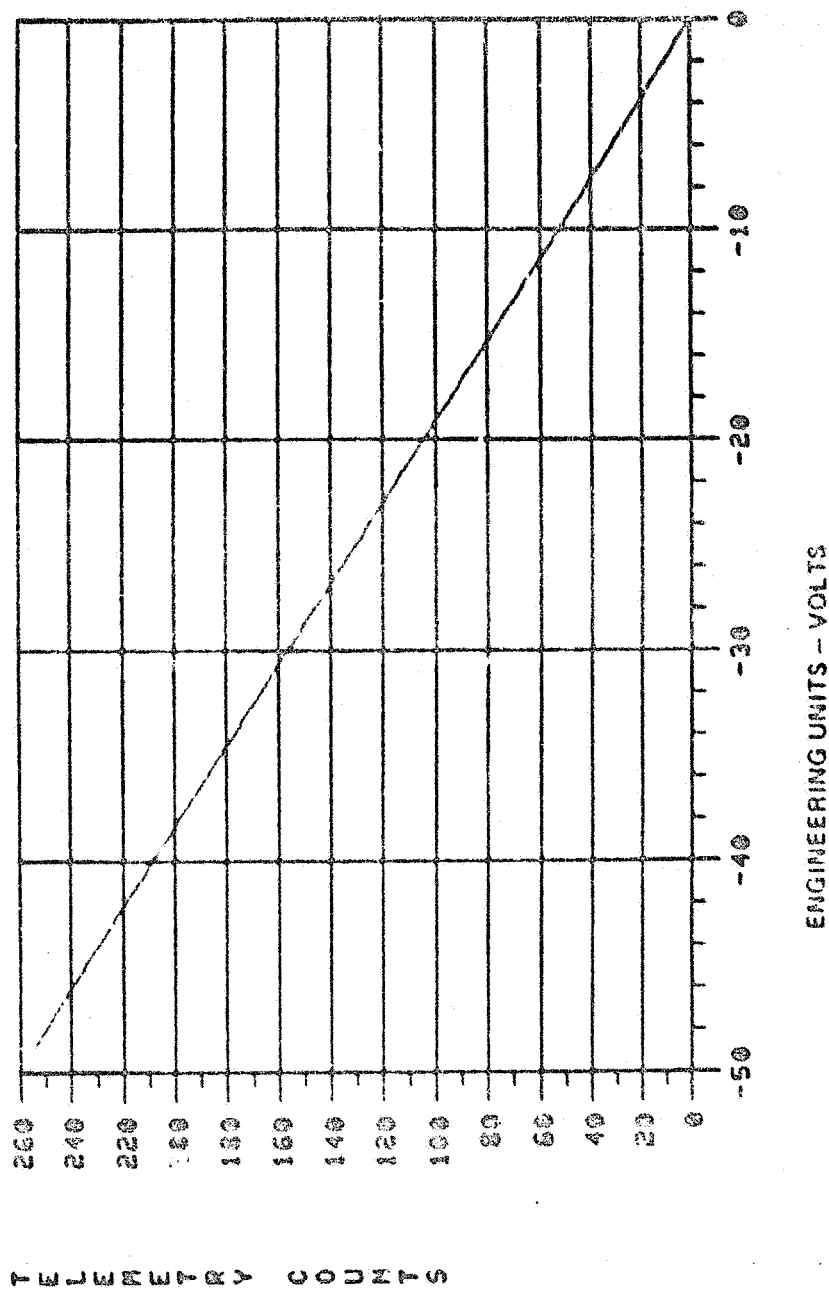
ENGINEERING UNITS - VOLTS

TELEMETRY COUNTS

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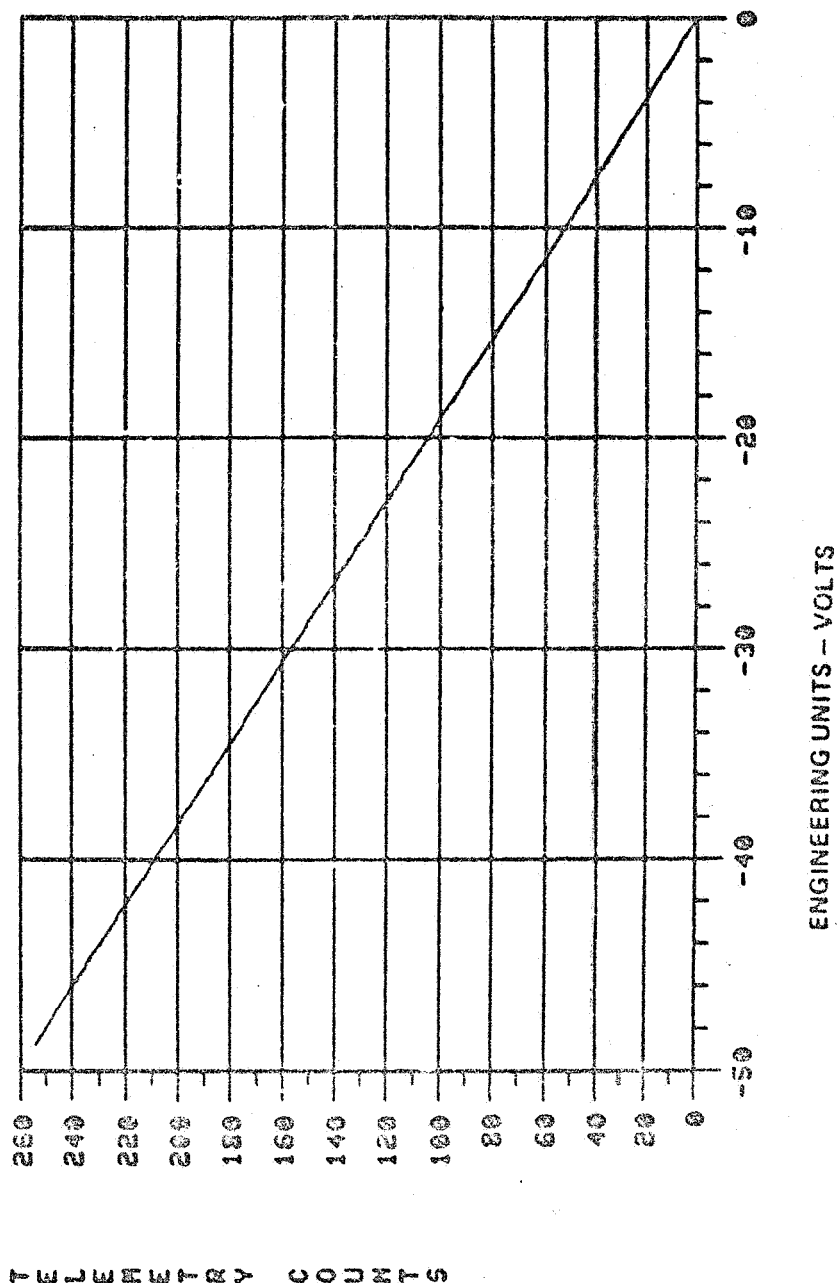
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COUNTS VS ENGINEERING UNITS FOR MUP52N24



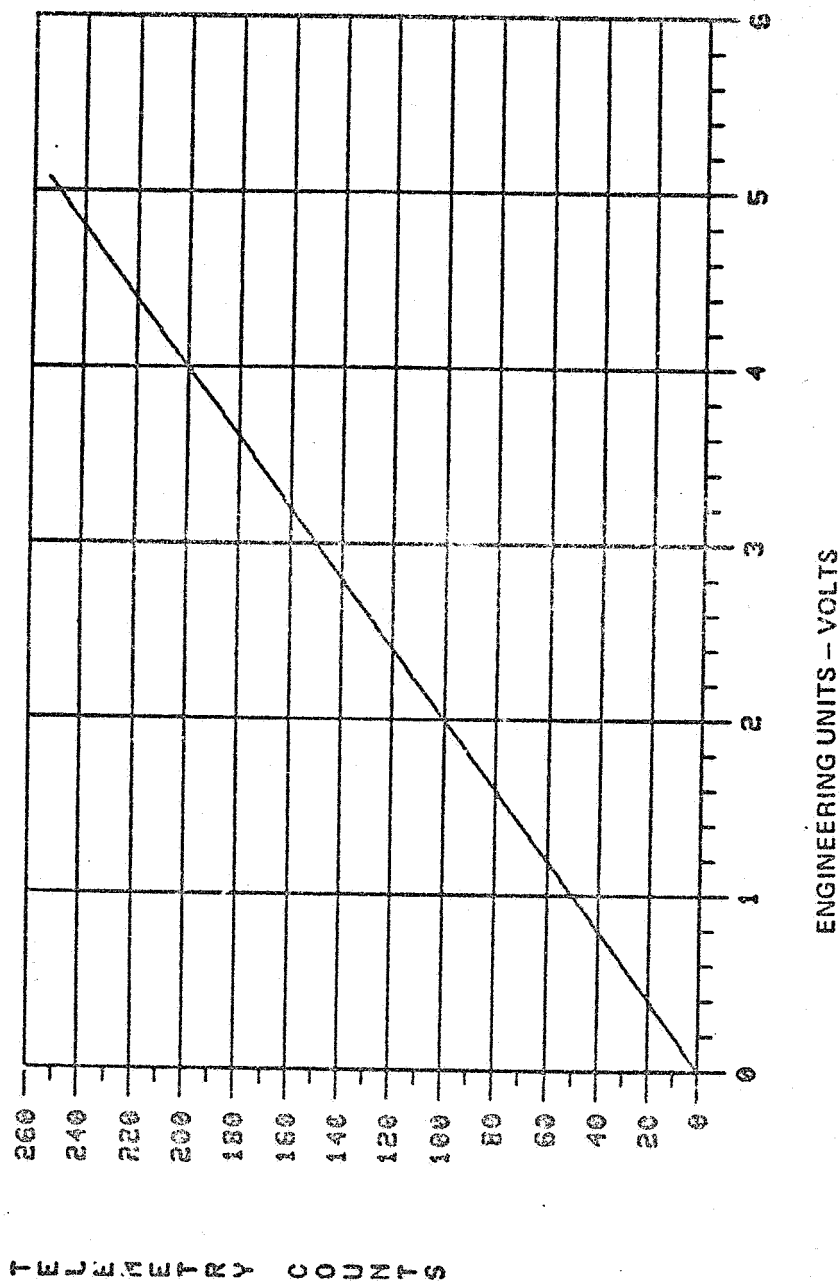
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COUNTS VS ENGINEERING UNITS FOR RUP26NO



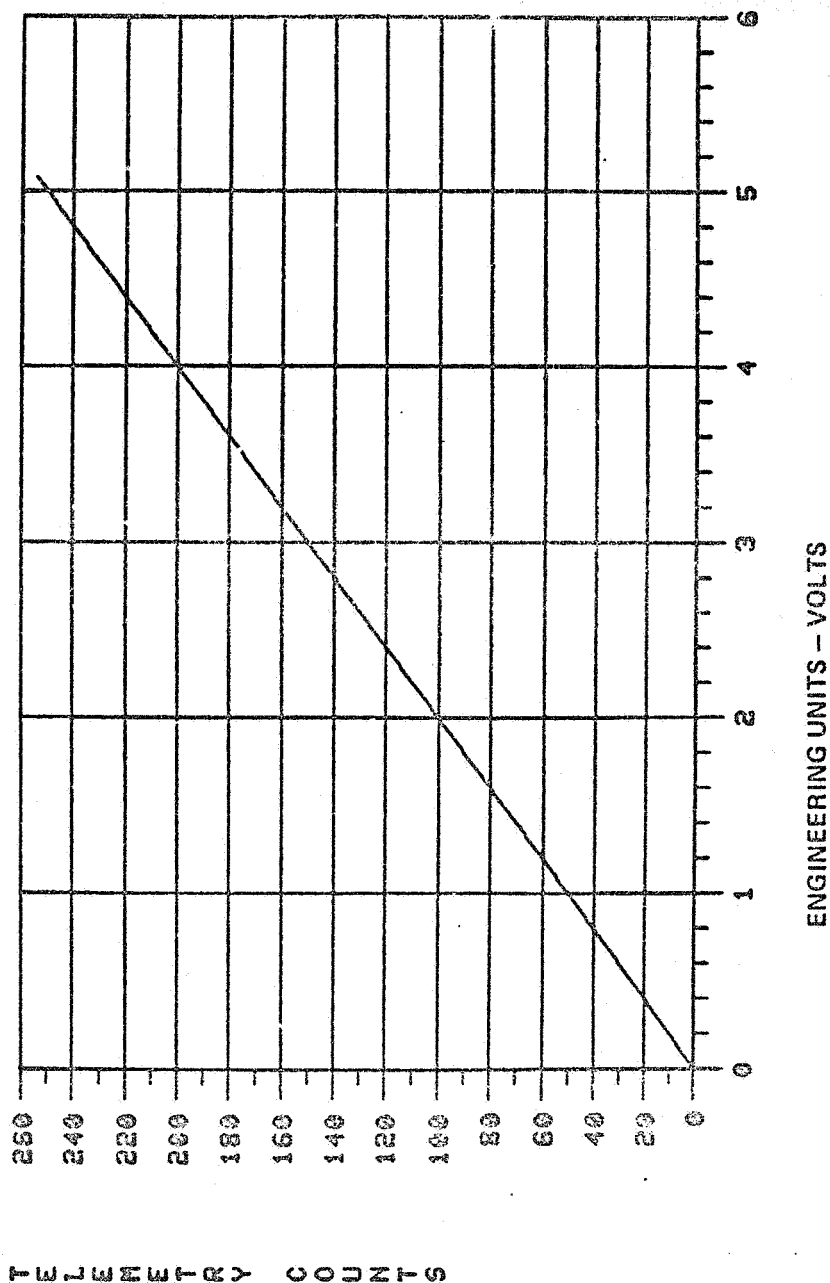
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COUNTS VS ENGINEERING UNITS FOR MURADB19



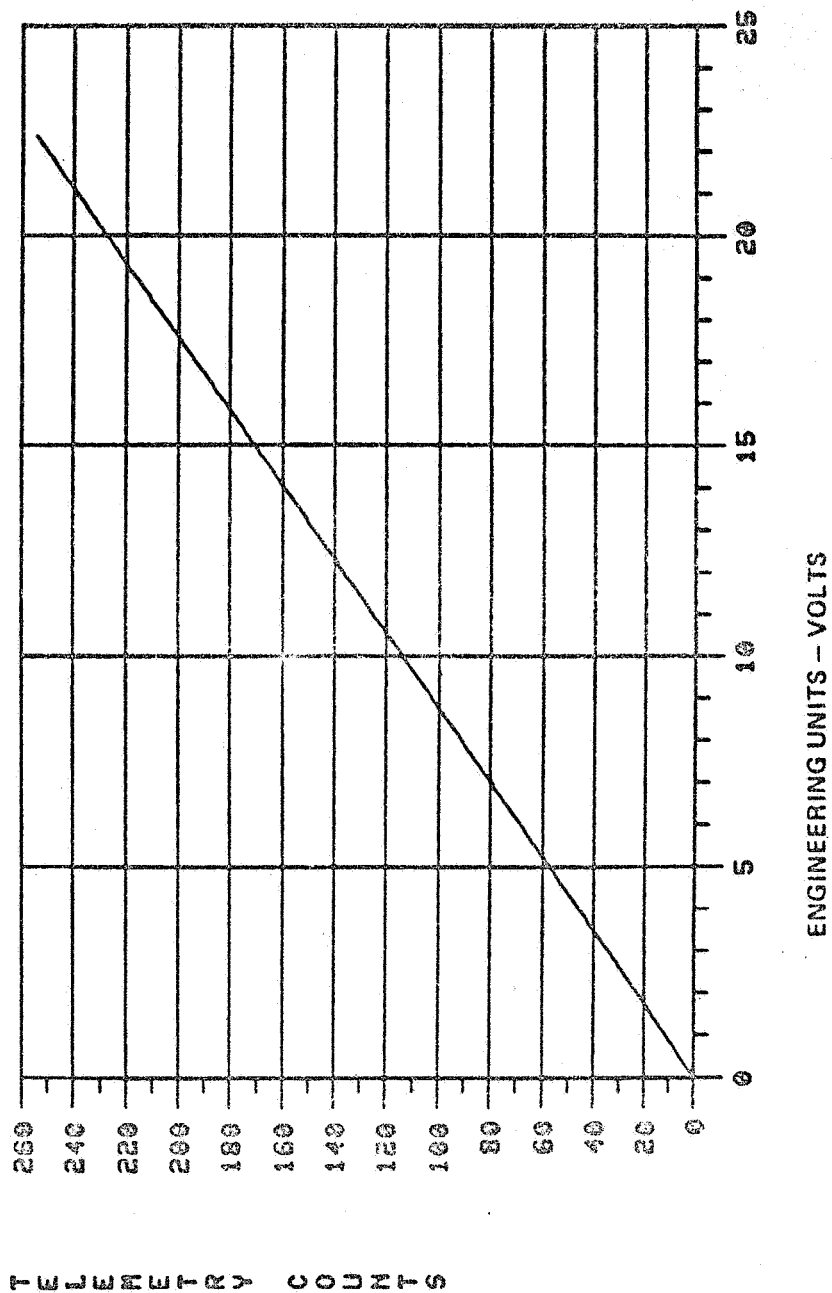
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COUNTS VS ENGINEERING UNITS FOR MURADPO5



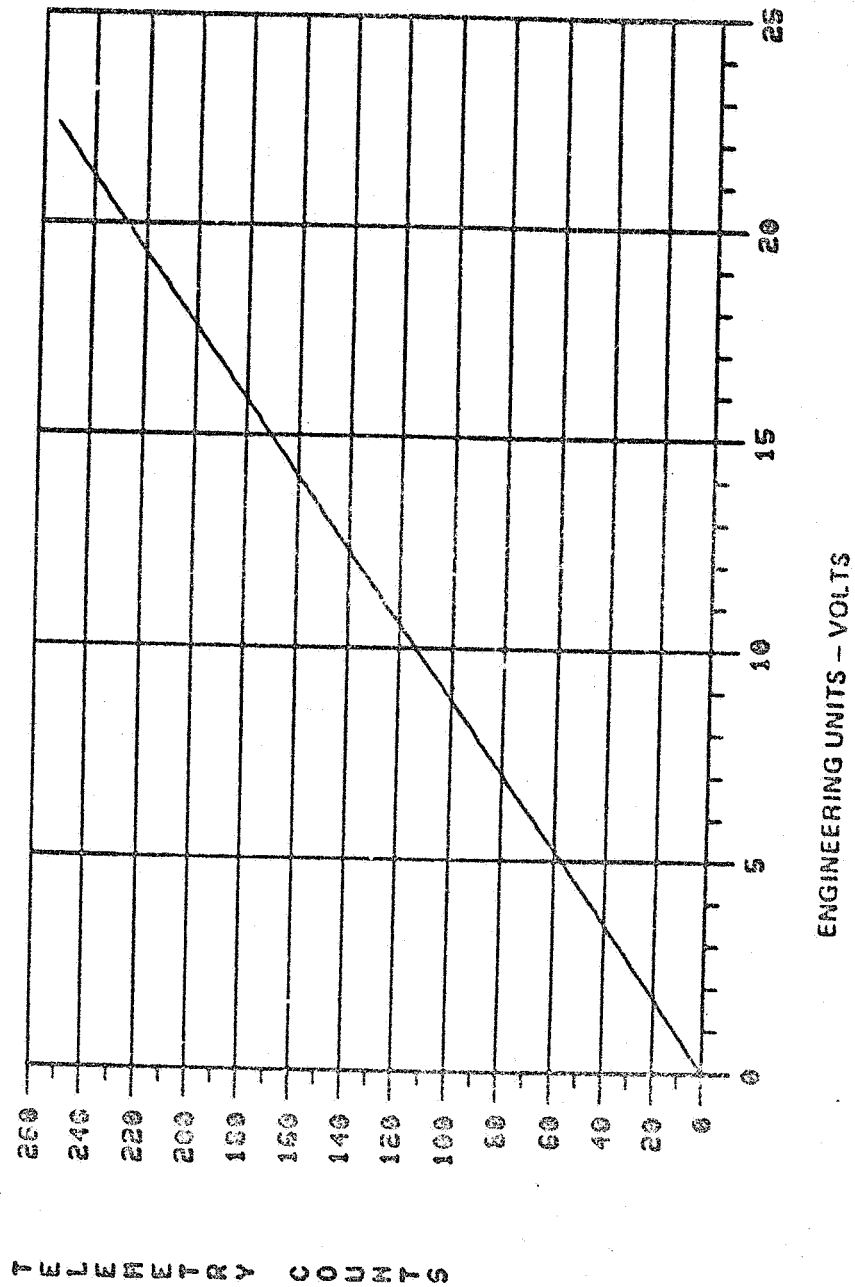
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COUNTS VS ENGINEERING UNITS FOR MURADP18



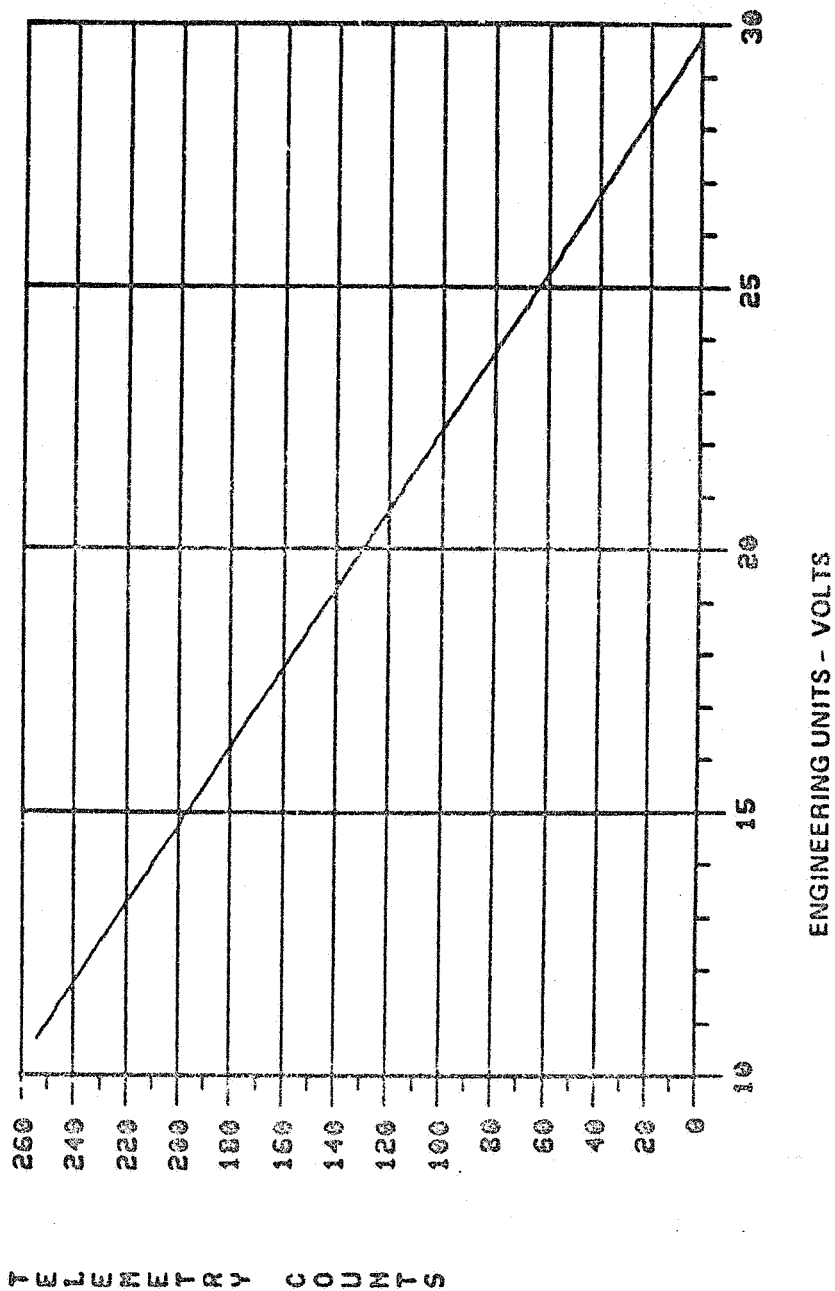
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COUNTS VS ENGINEERING UNITS FOR MURDP180



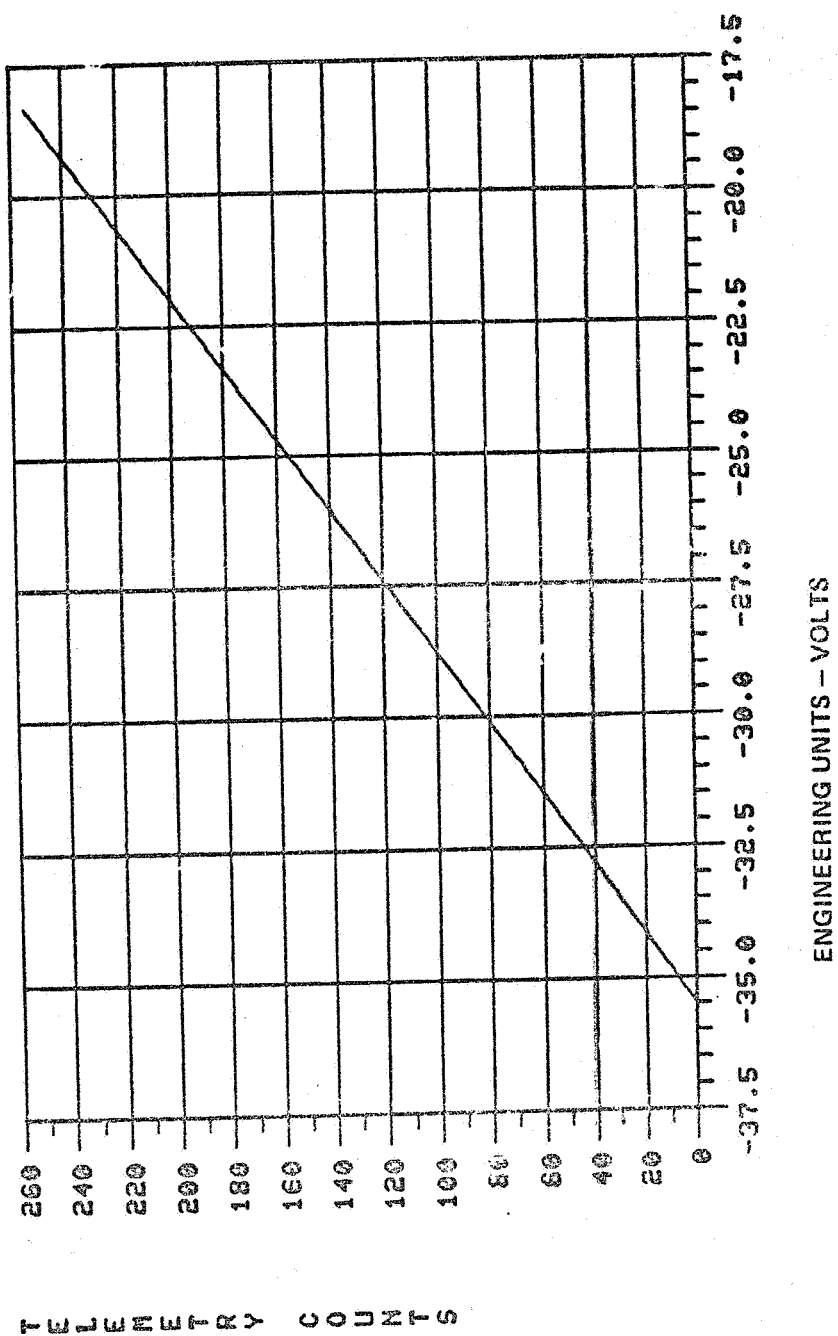
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COUNTS US ENGINEERING UNITS FOR HUSCHDRR



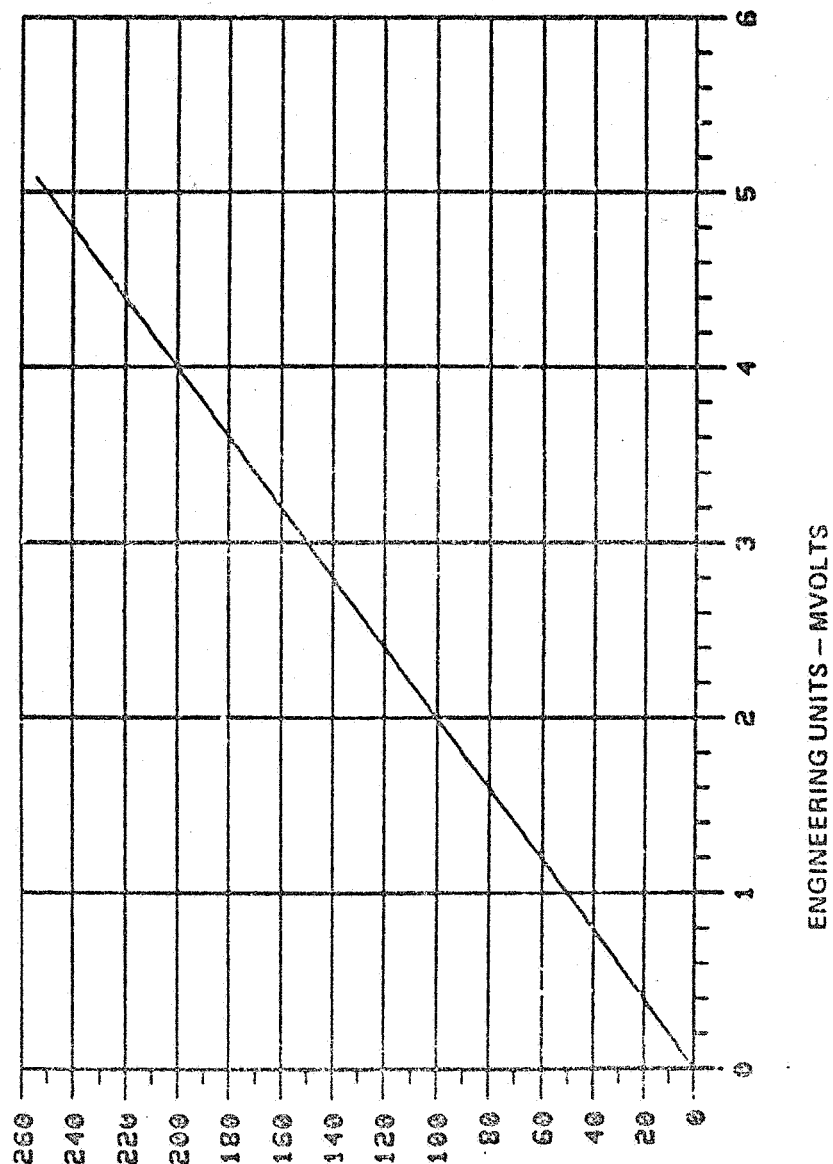
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COUNTS VS ENGINEERING UNITS FOR MUSCHRRG



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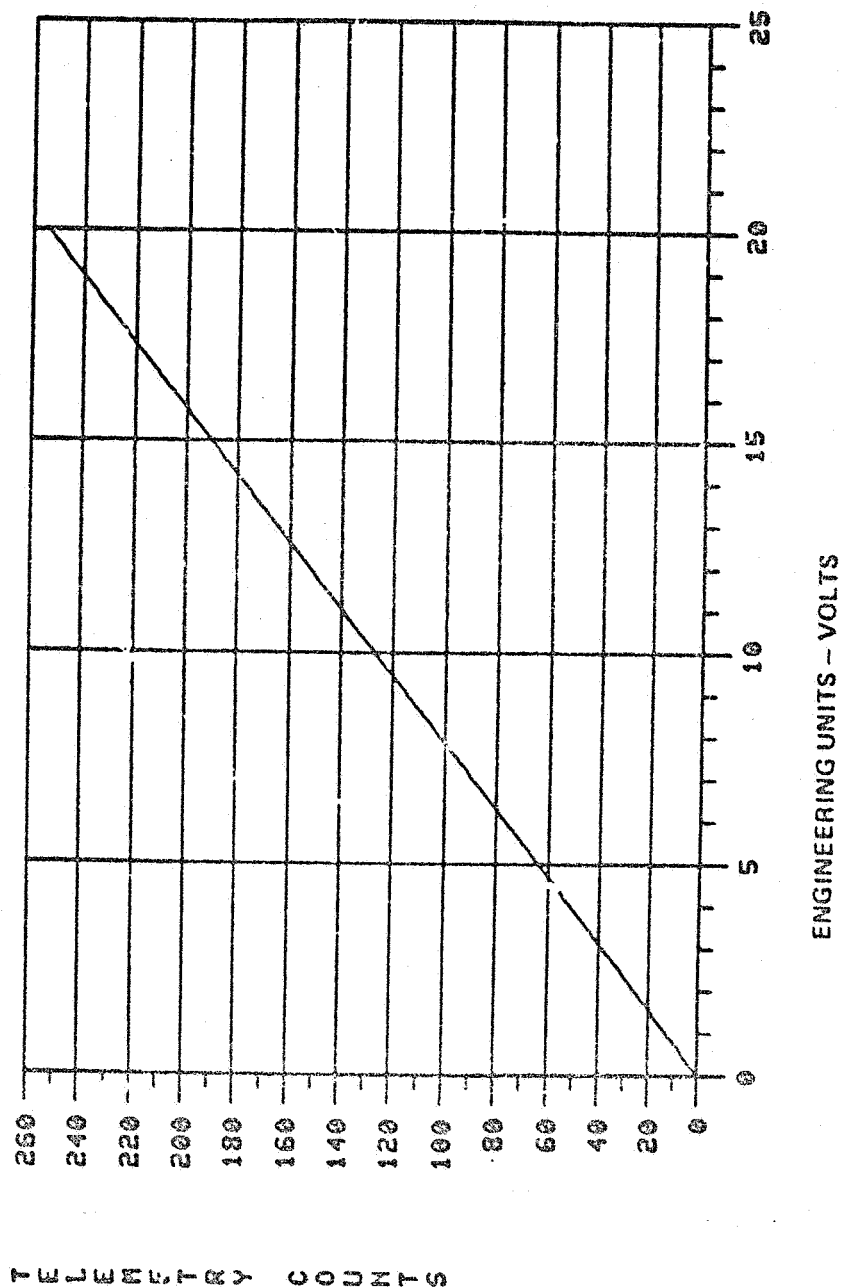
COUNTS VS ENGINEERING UNITS FOR MUSHROTL



TELEMETRY COUNTS

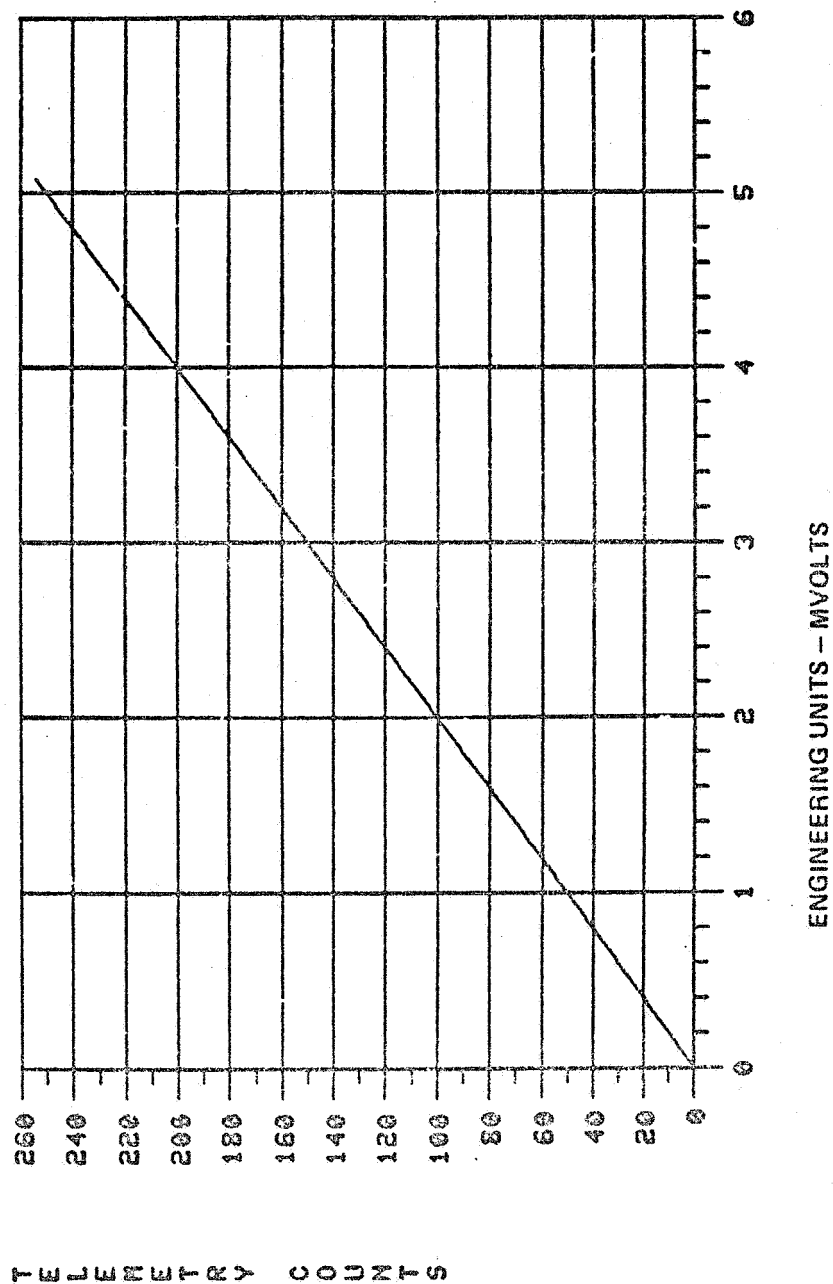
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COUNTS VS ENGINEERING UNITS FOR NUTLMP15



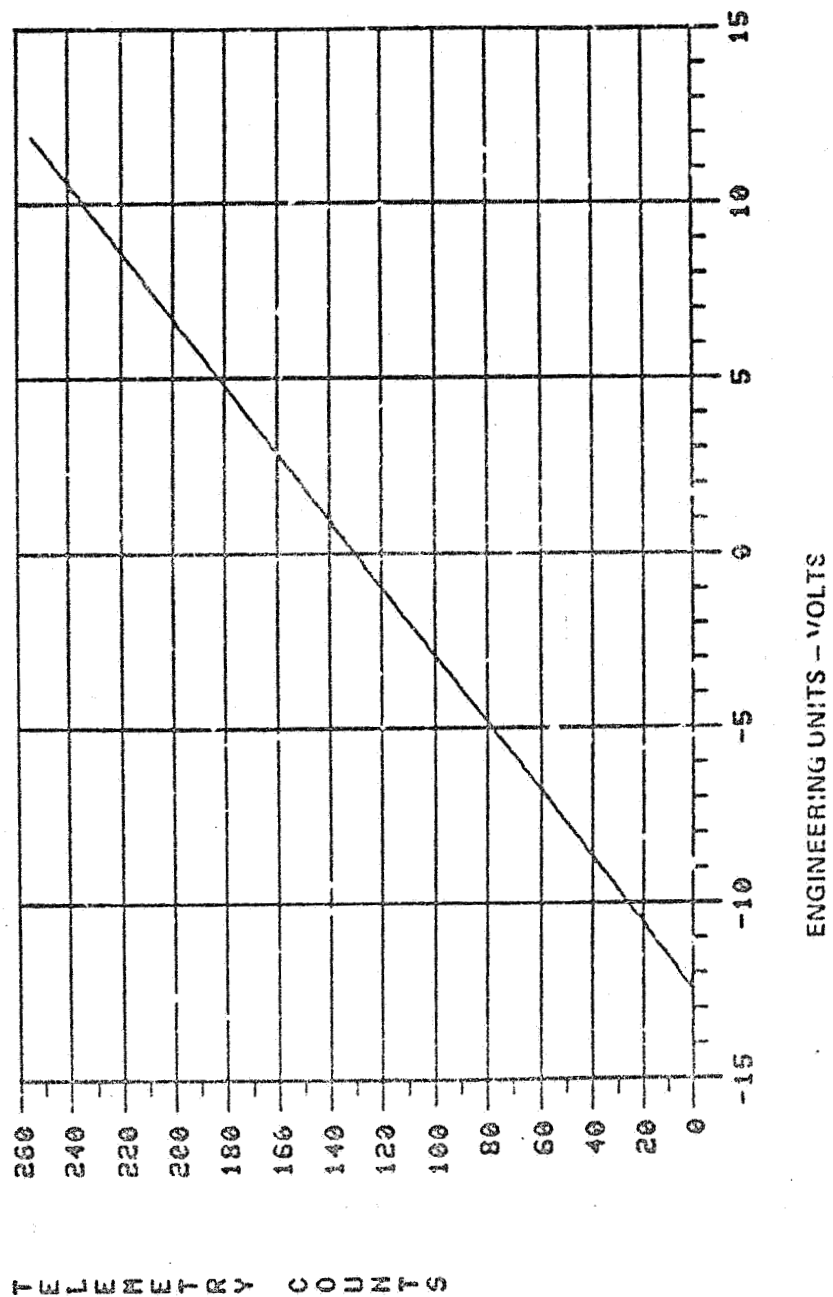
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COUNTS VS ENGINEERING UNITS FOR HXAUDATA



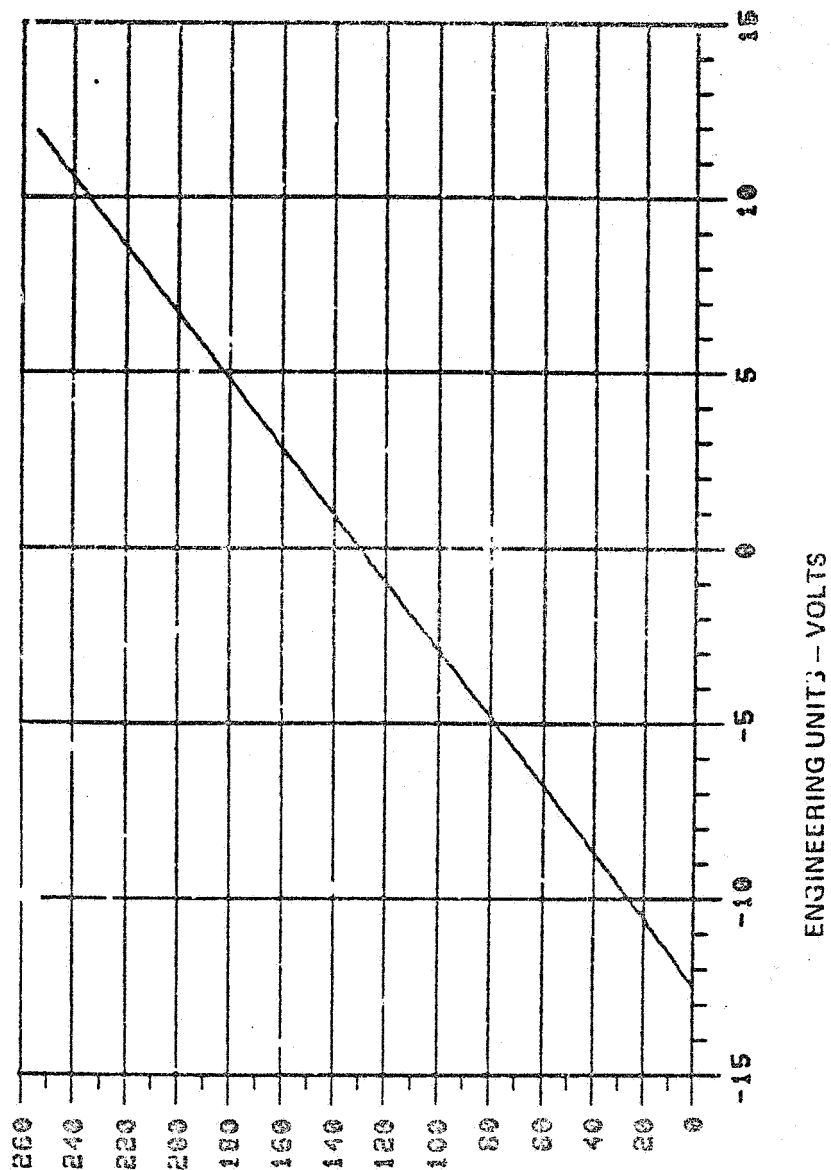
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COUNTS VS ENGINEERING UNITS FOR HXBD1CHA



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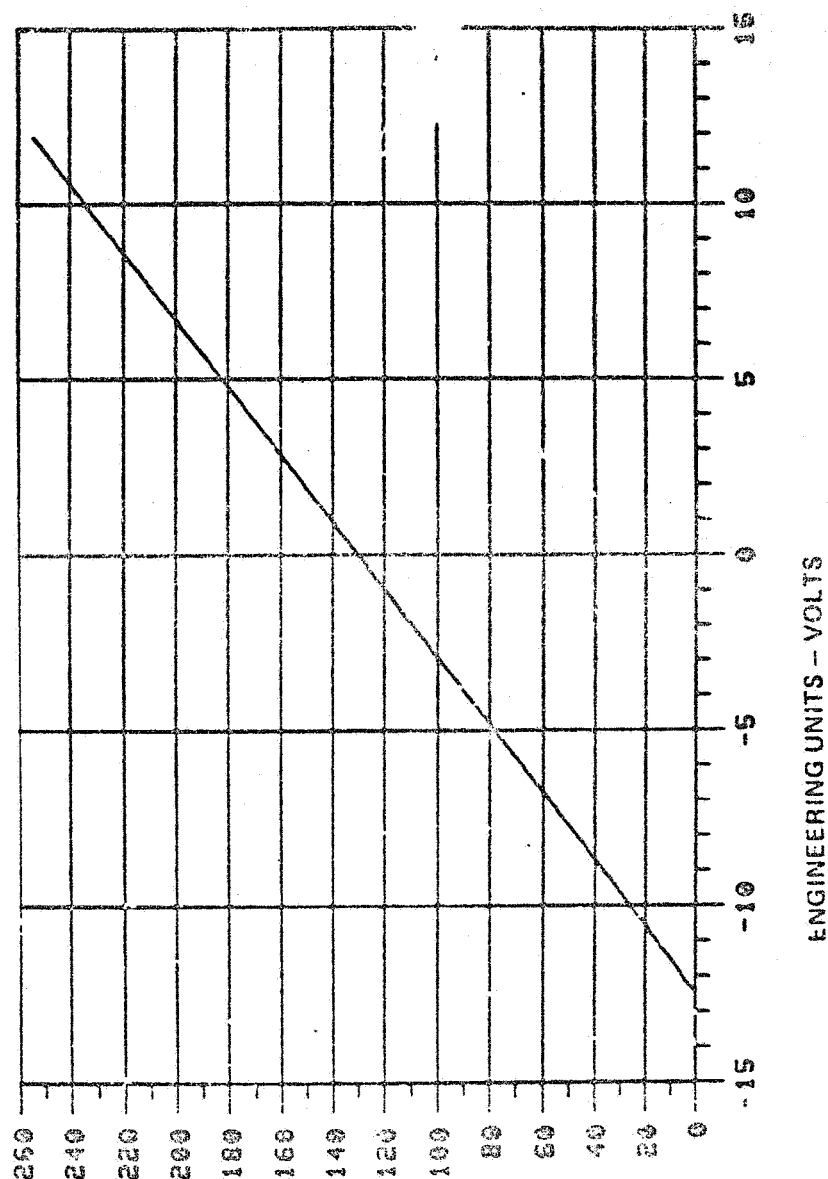
COUNTS VS ENGINEERING UNITS FOR AXBDECHA



TELEMETRY COUNTS

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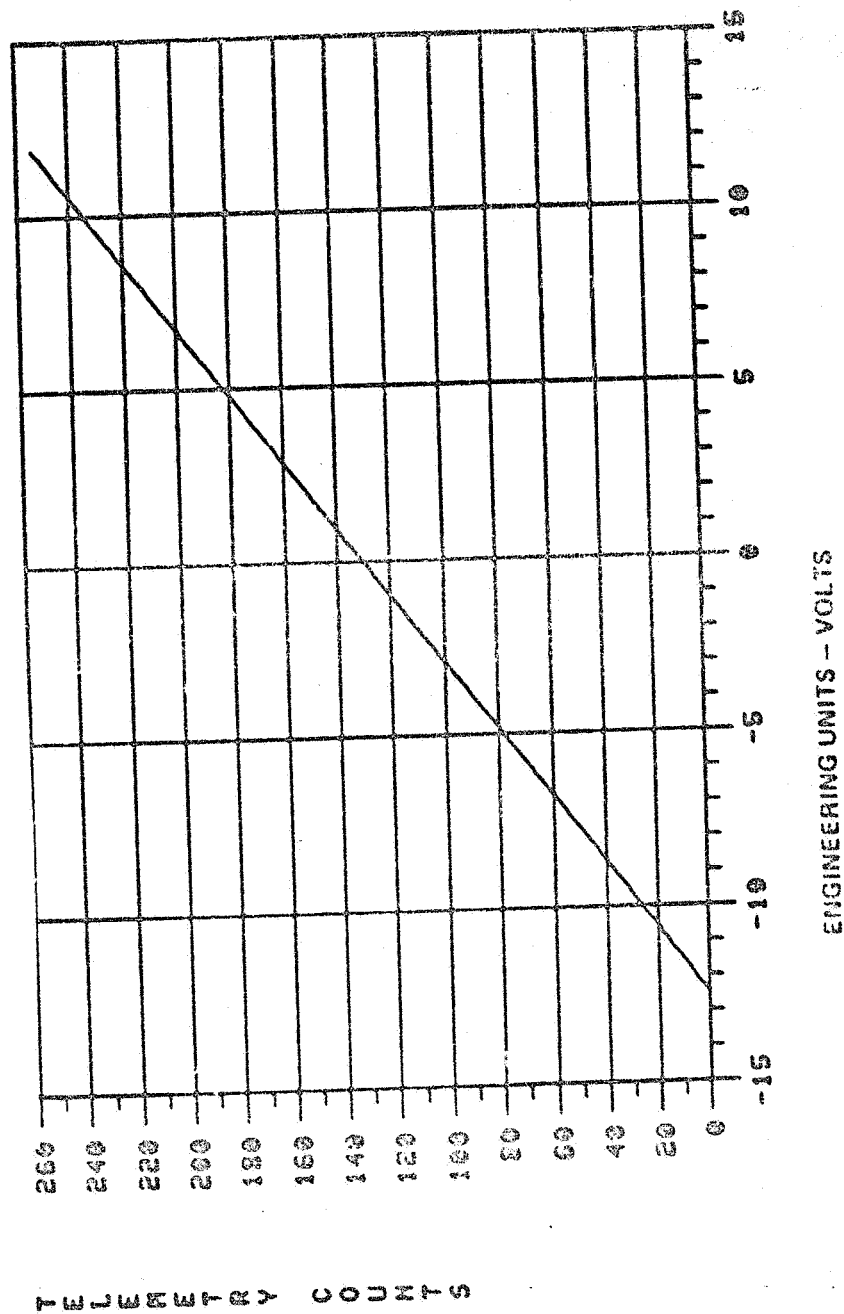
COUNTS VS ENGINEERING UNITS FOR MX2D3CMA



TELETYPE COUNTS

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COUNTS VS ENGINEERING UNITS FOR MXDD4CHA



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APPENDIX A.18

PAYLOAD CORRECTION DATA (PCD) TELEMETRY CALIBRATION DATA

The calibration curve coefficients for each telemetry point are controlled in the data base. They are listed along with the unit section number where the sensor is located. Tables showing the coefficients may be obtained from the data base administrator. The tables show telemetry volts (counts) vs. engineering units.

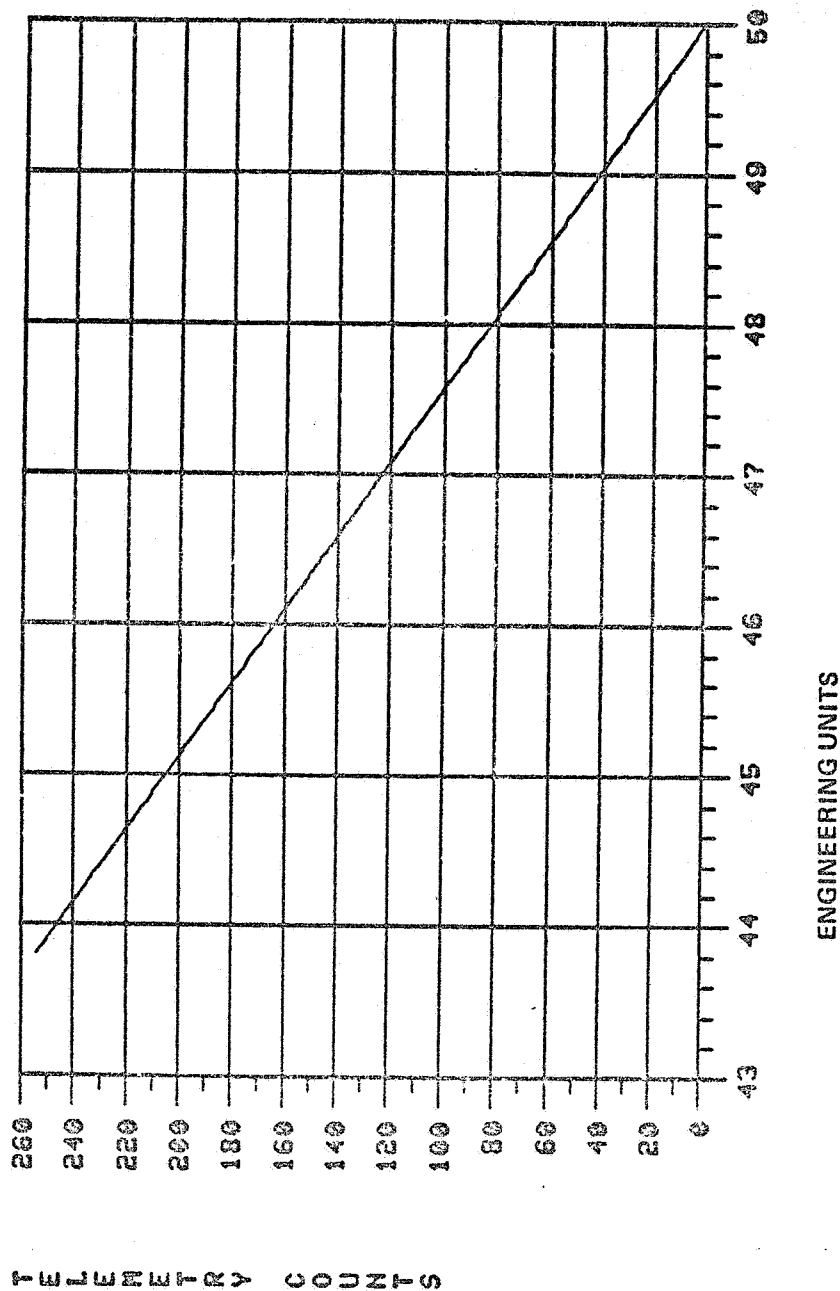
LSD-WPC-263

ADS CONV. DEF.
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COEFF	XADSX2	, 50,-.024414
COEFF	XADSX3	, 50,-.024414
COEFF	XADSX4	, 50,-.024414
COEFF	XADSY1	, 50,-.024414
COEFF	XADSY2	, 50,-.024414
COEFF	XADSY3	, 50,-.024414
COEFF	XADSY4	, 50,-.024414
COEFF	XADSZ1	, 50,-.024414
COEFF	XADSZ2	, 50,-.024414
COEFF	XADSZ3	, 50,-.024414
COEFF	XADSZ4	, 50,-.024414
COEFF	XGROUND	, 5000,-2.4414
COEFF	XGYR011	, 0.0,0.05
COEFF	XGYR012	, 0.0,0.05
COEFF	XGYR013	, 0.0,0.05
COEFF	XGYR014	, 0.0,0.05
COEFF	XGYR021	, 0.0,0.05
COEFF	XGYR022	, 0.0,0.05
COEFF	XGYR023	, 0.0,0.05
COEFF	XGYR024	, 0.0,0.05
COEFF	XGYR031	, 0.0,0.05
COEFF	XGYR032	, 0.0,0.05
COEFF	XGYR033	, 0.0,0.05
COEFF	XGYR034	, 0.0,0.05
POINT	XTADSA	; ADS TEMP in deg. centigrade
COEFF	XTADSA	, .11682E+4,-.3543E+2,.45573E00,-.29525E-2,.95116E-5,-.12177E-7

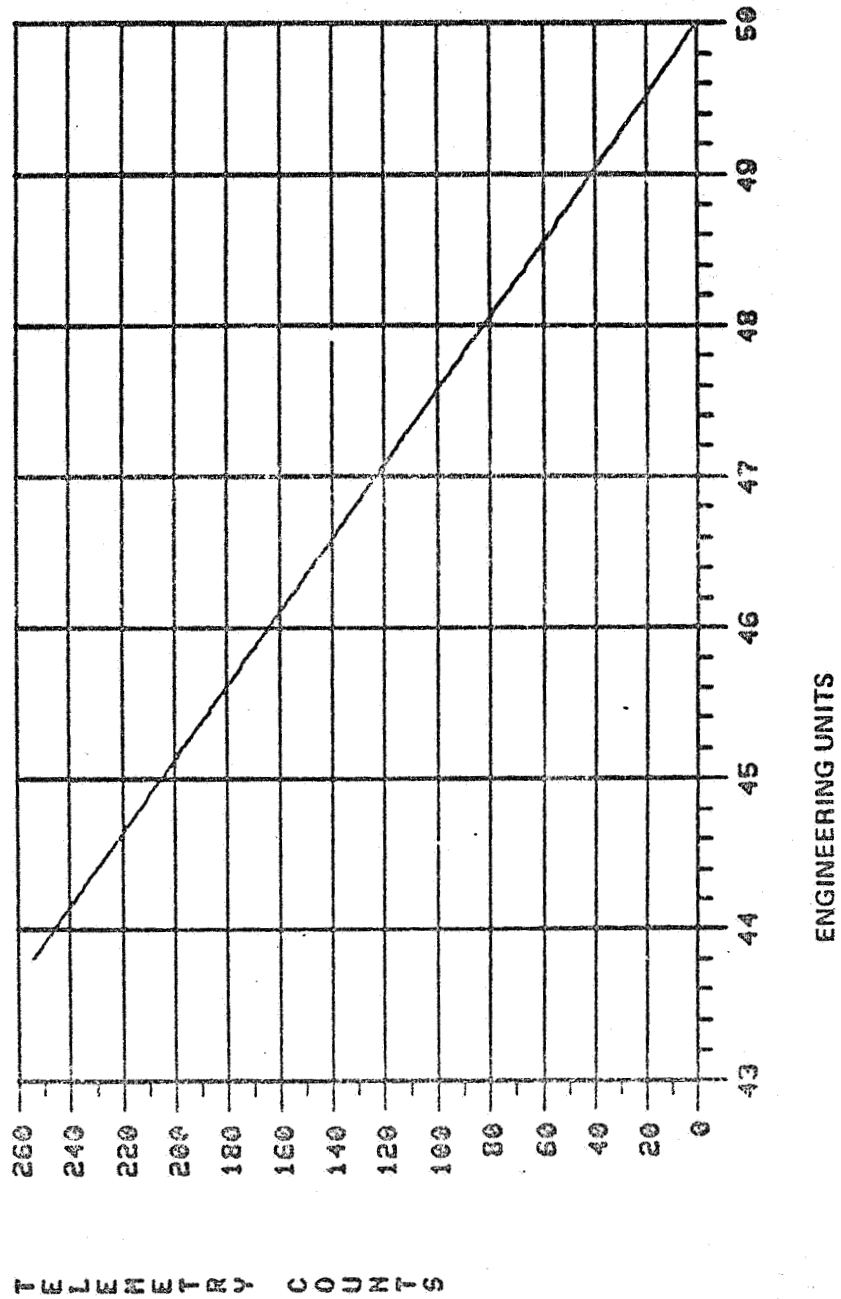
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COUNTS VS ENGINEERING UNITS FOR XAD SX1



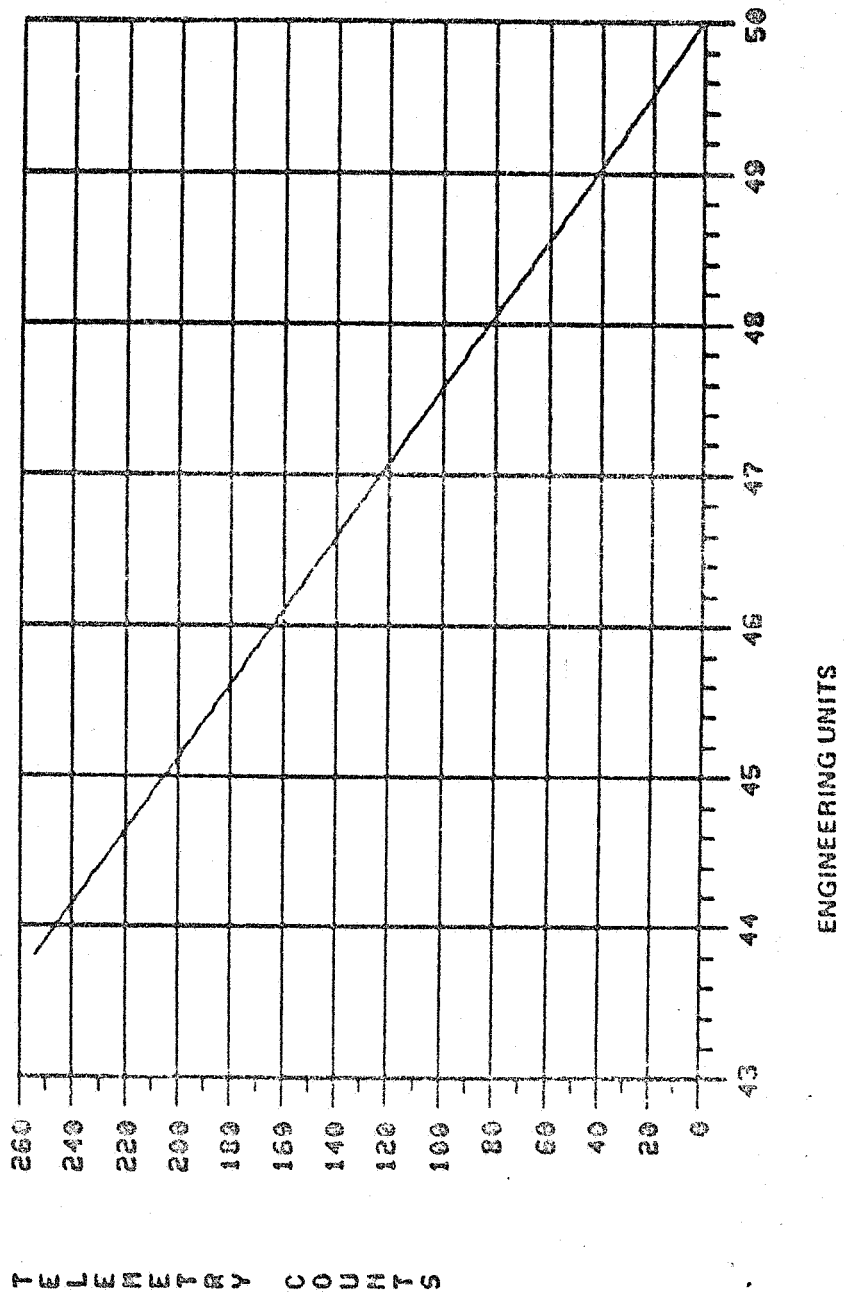
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COUNTS VS ENGINEERING UNITS FOR XADSK2



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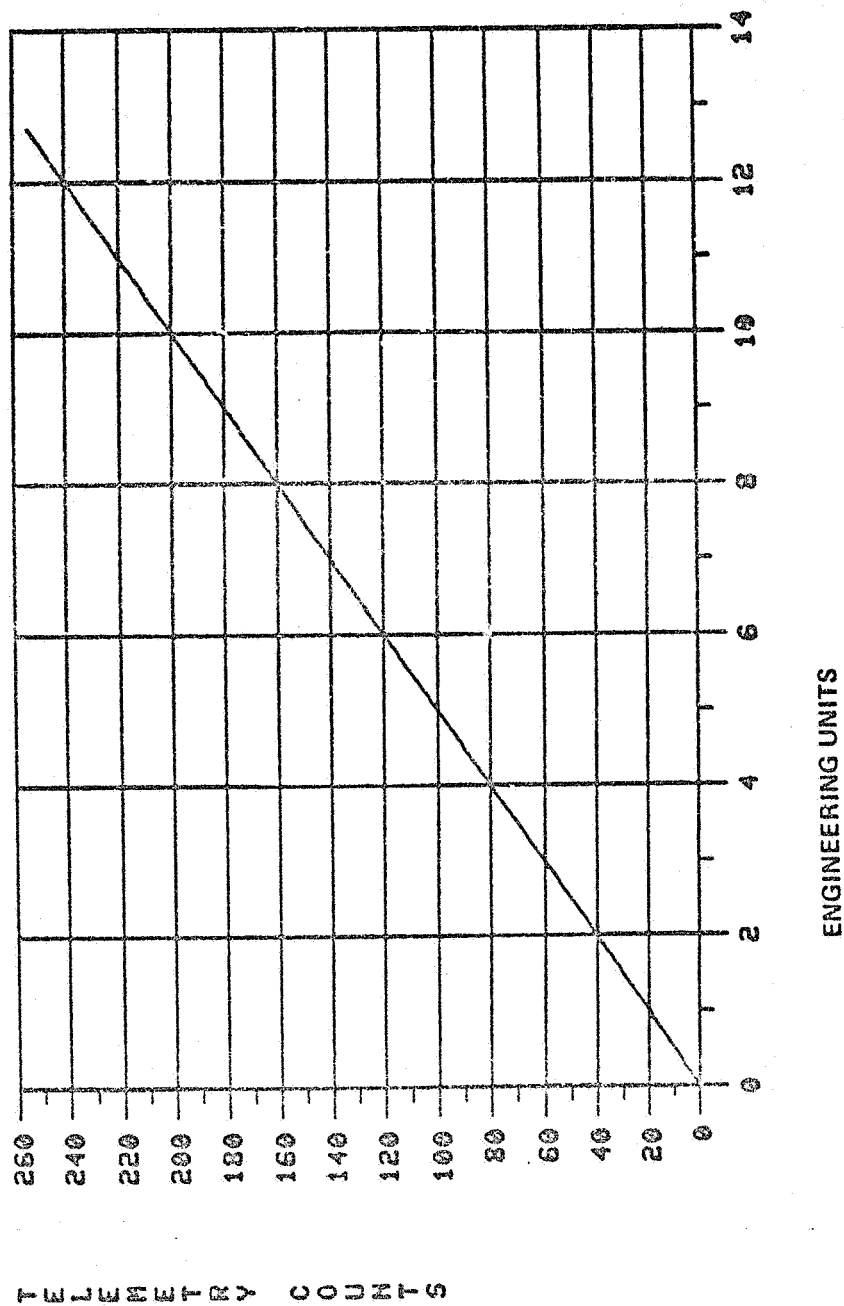
COUNTS VS ENGINEERING UNITS FOR XAD5X3



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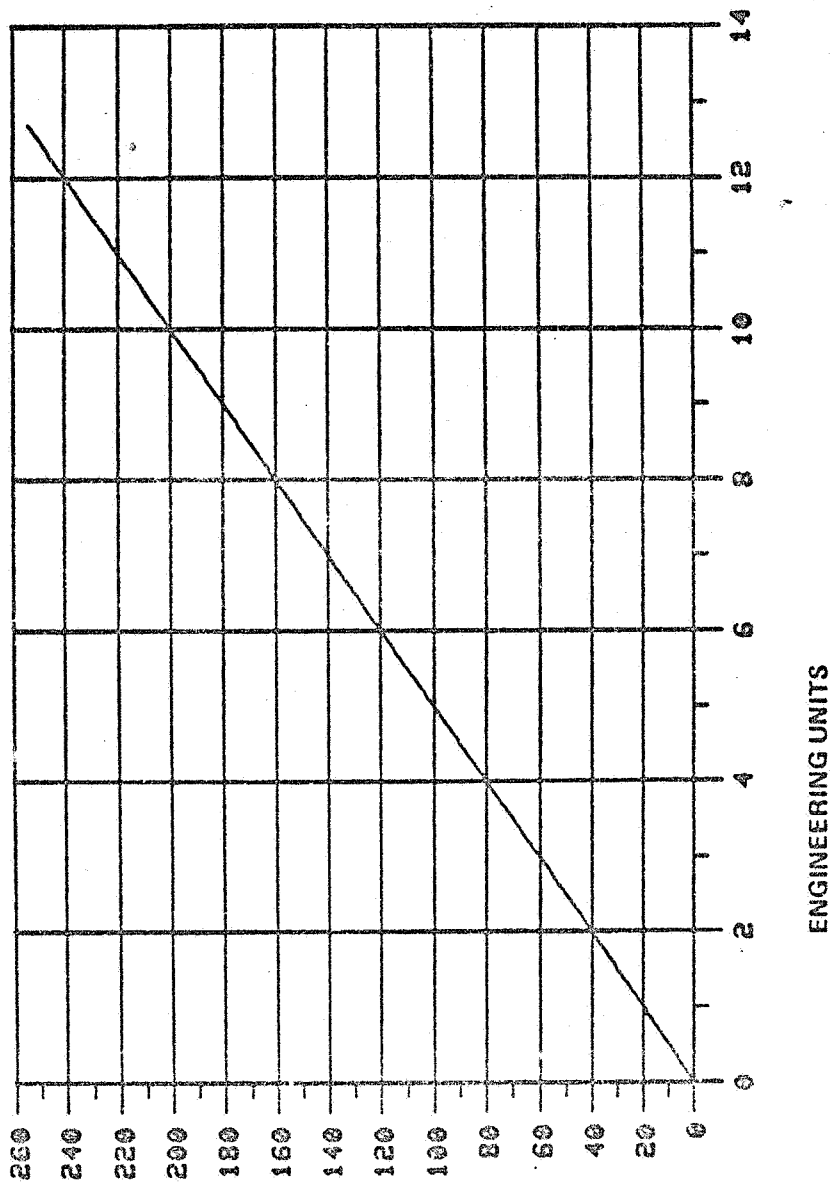
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COUNTS VS ENGINEERING UNITS FOR XGYR011



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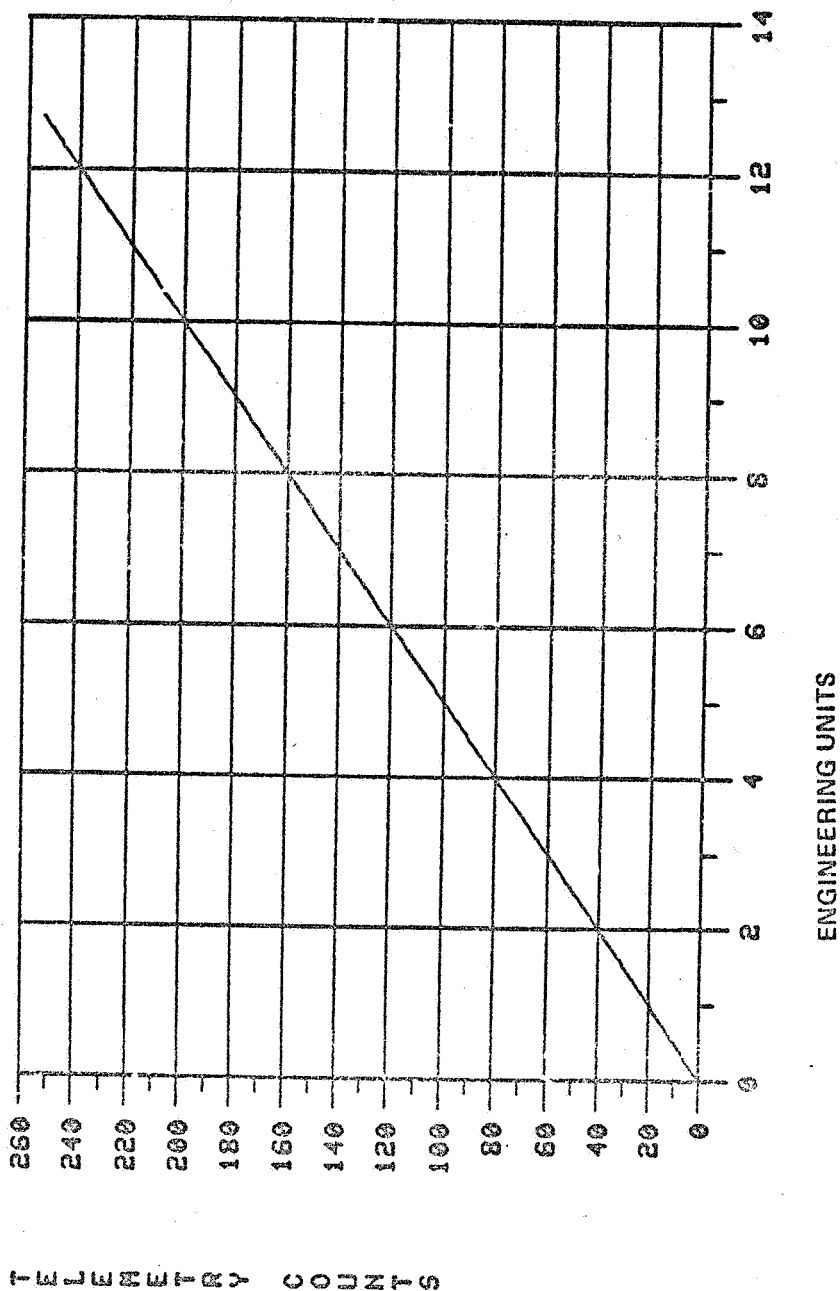
COUNTS VS ENGINEERING UNITS FOR XGYR012



TELEMETRY COUNTS

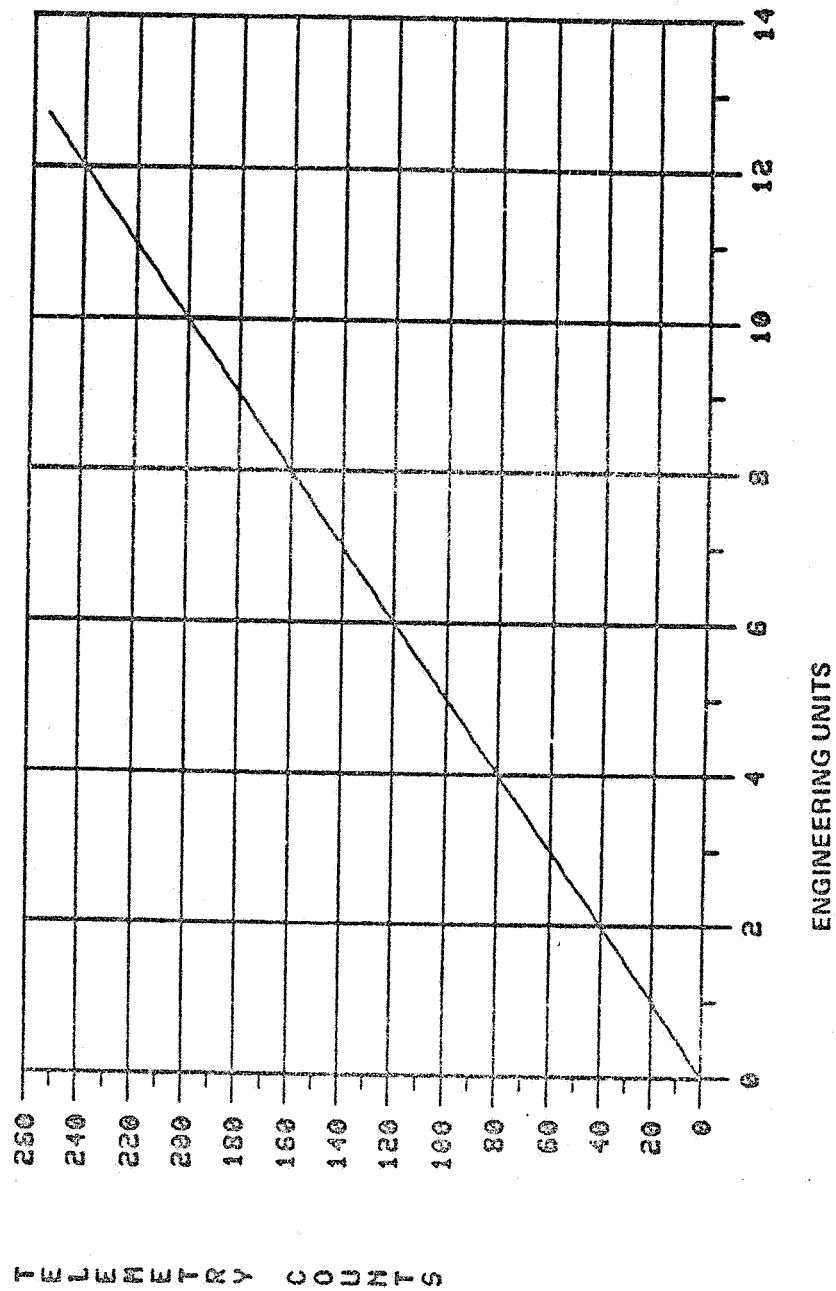
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COUNTS VS ENGINEERING UNITS FOR XGYR013



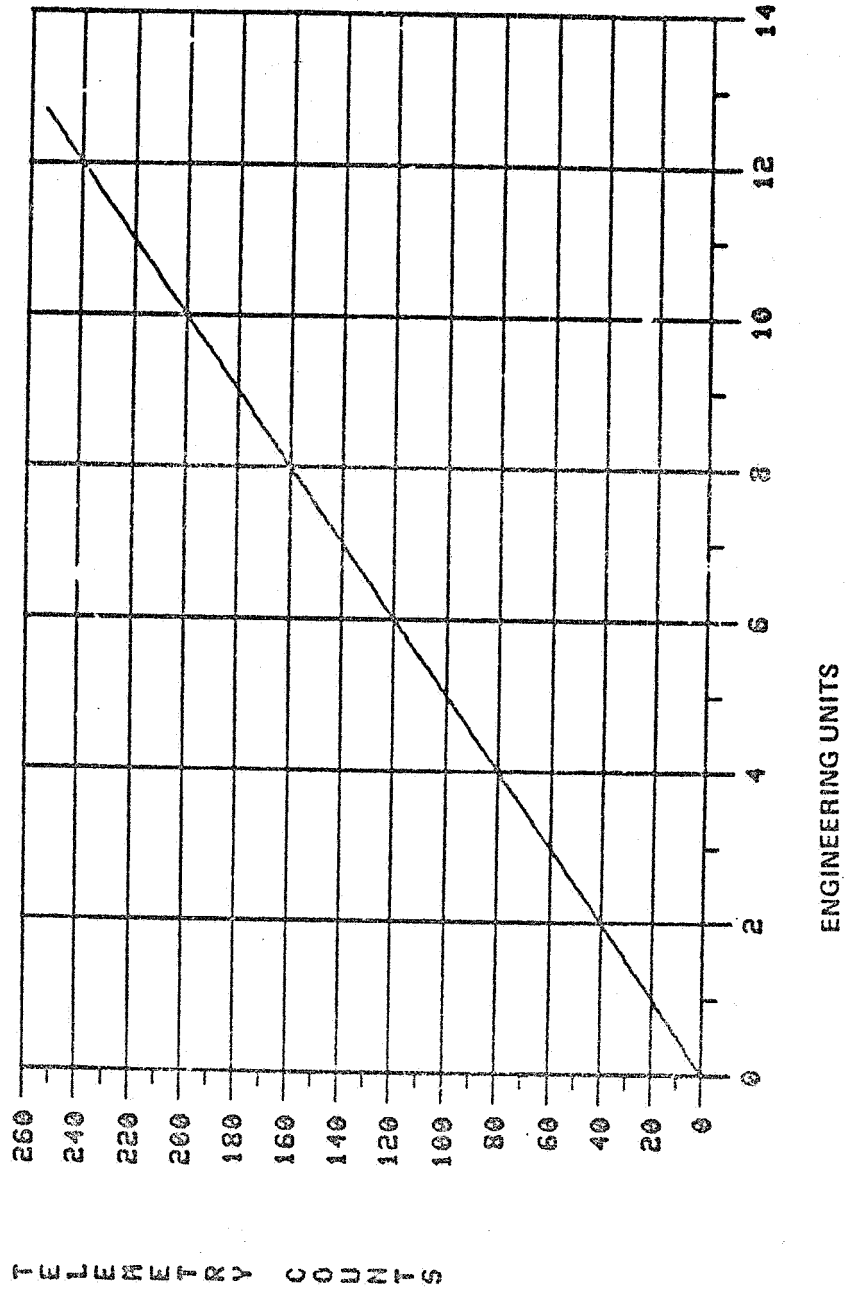
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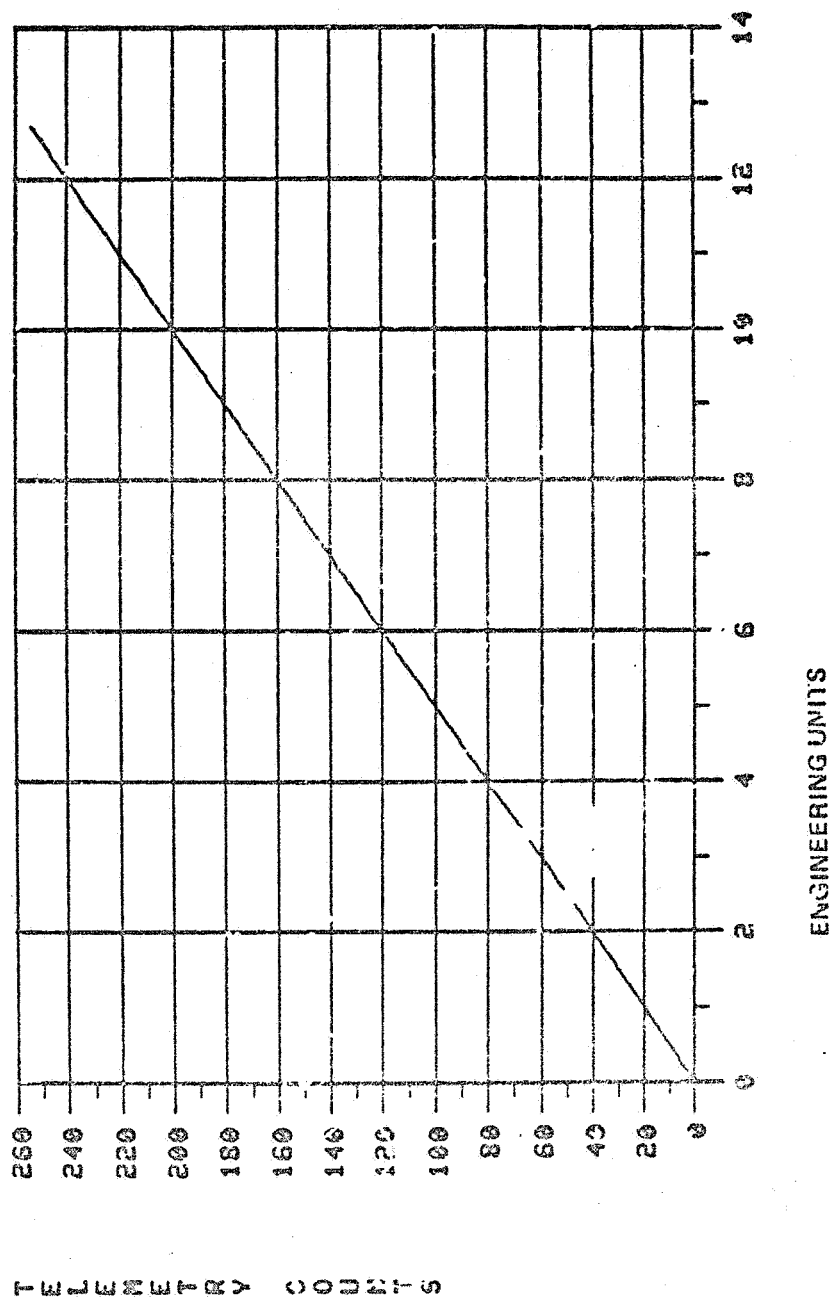
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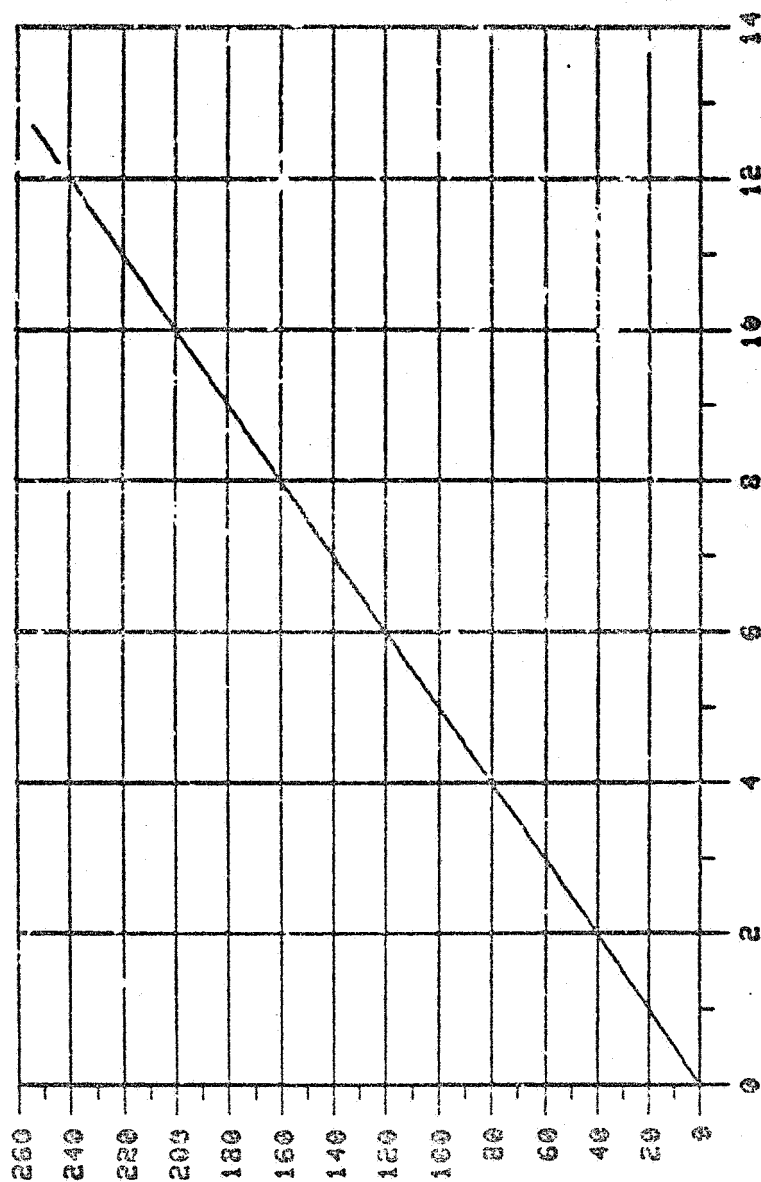
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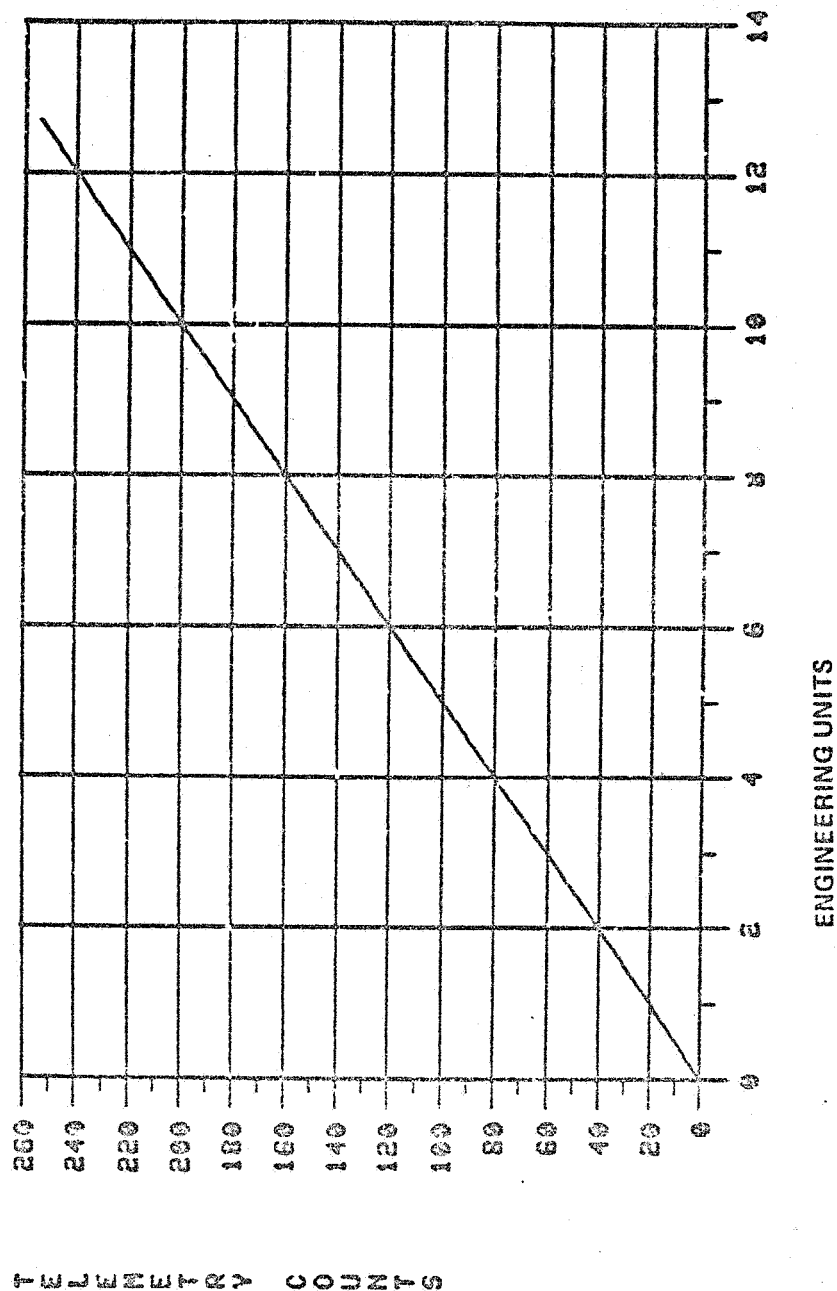


TELEMETRY COUNTS

ENGINEERING UNITS

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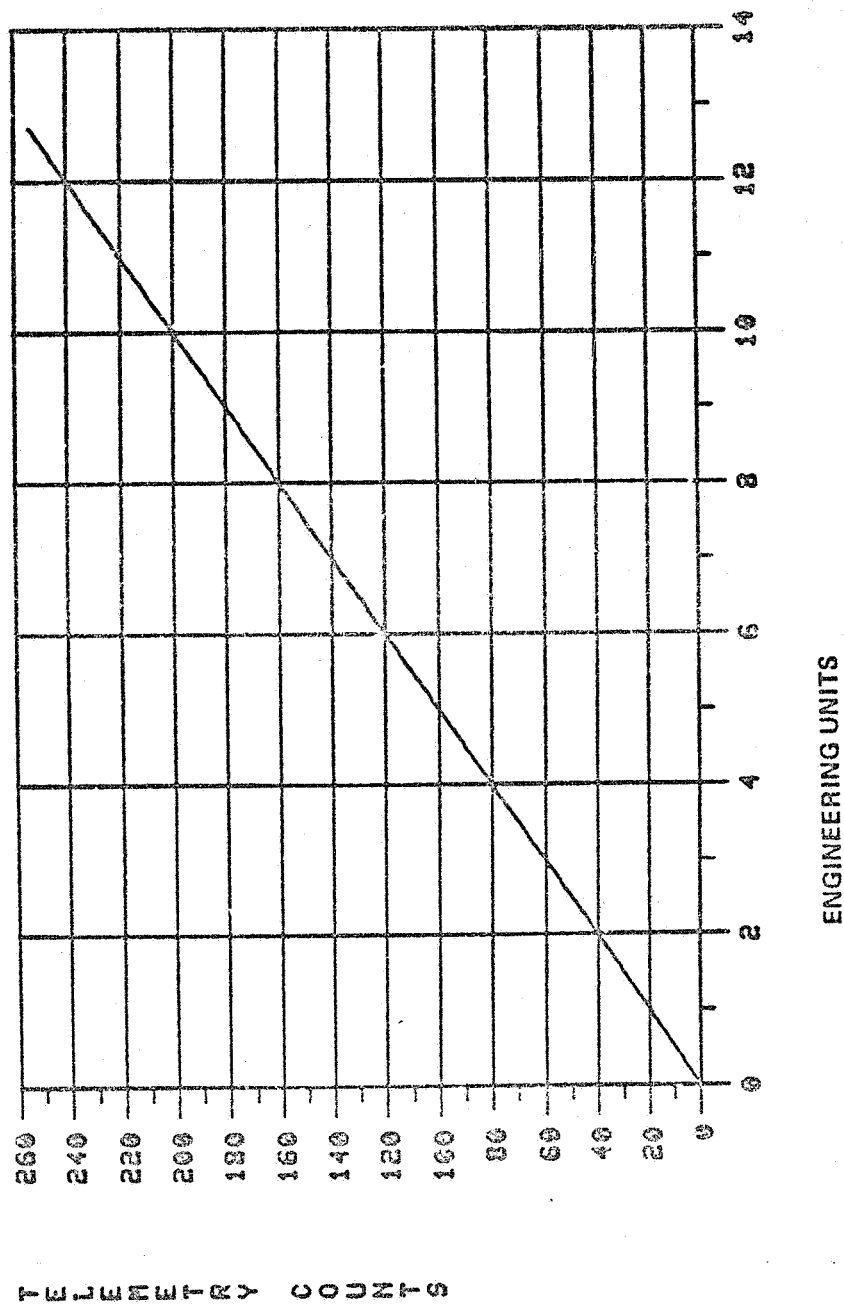
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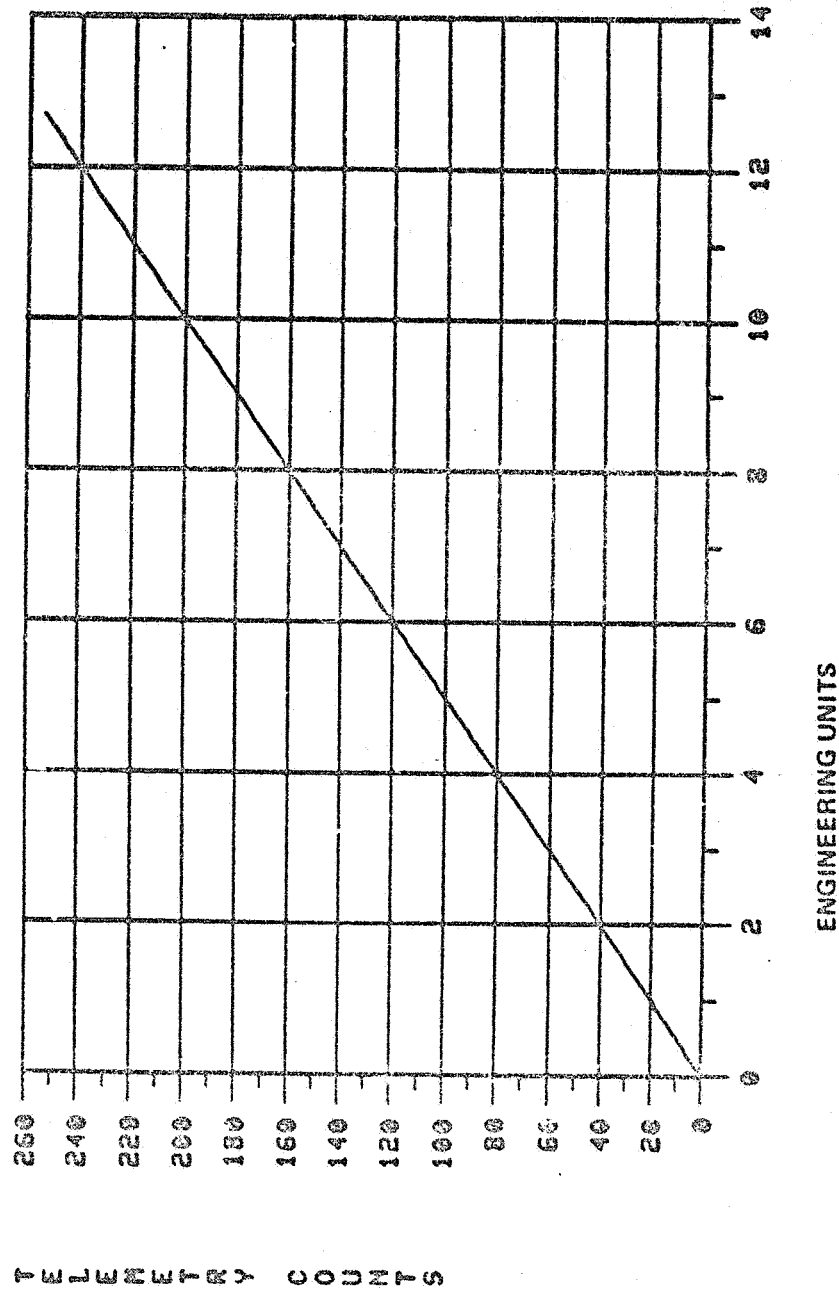
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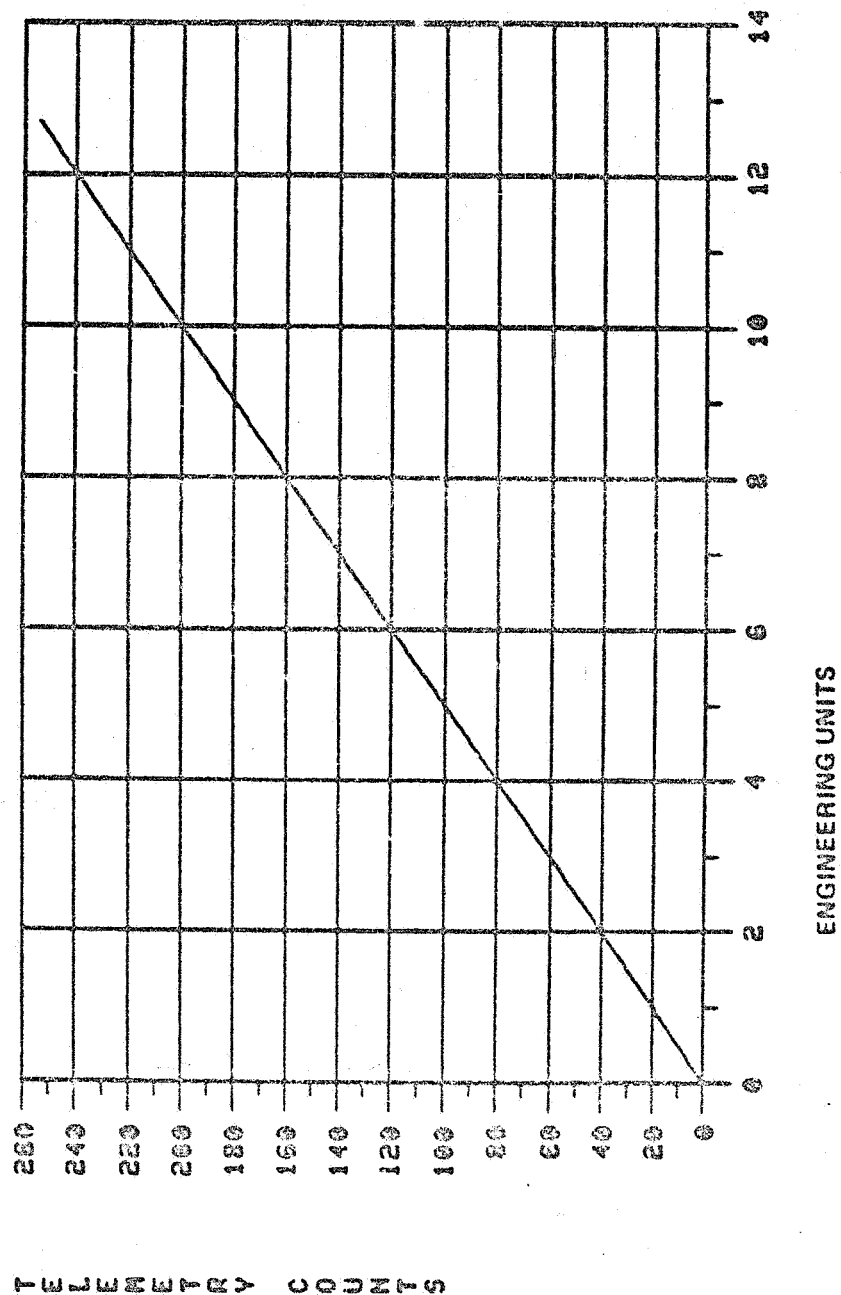
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COUNTS VS ENGINEERING UNITS FOR X0VR032



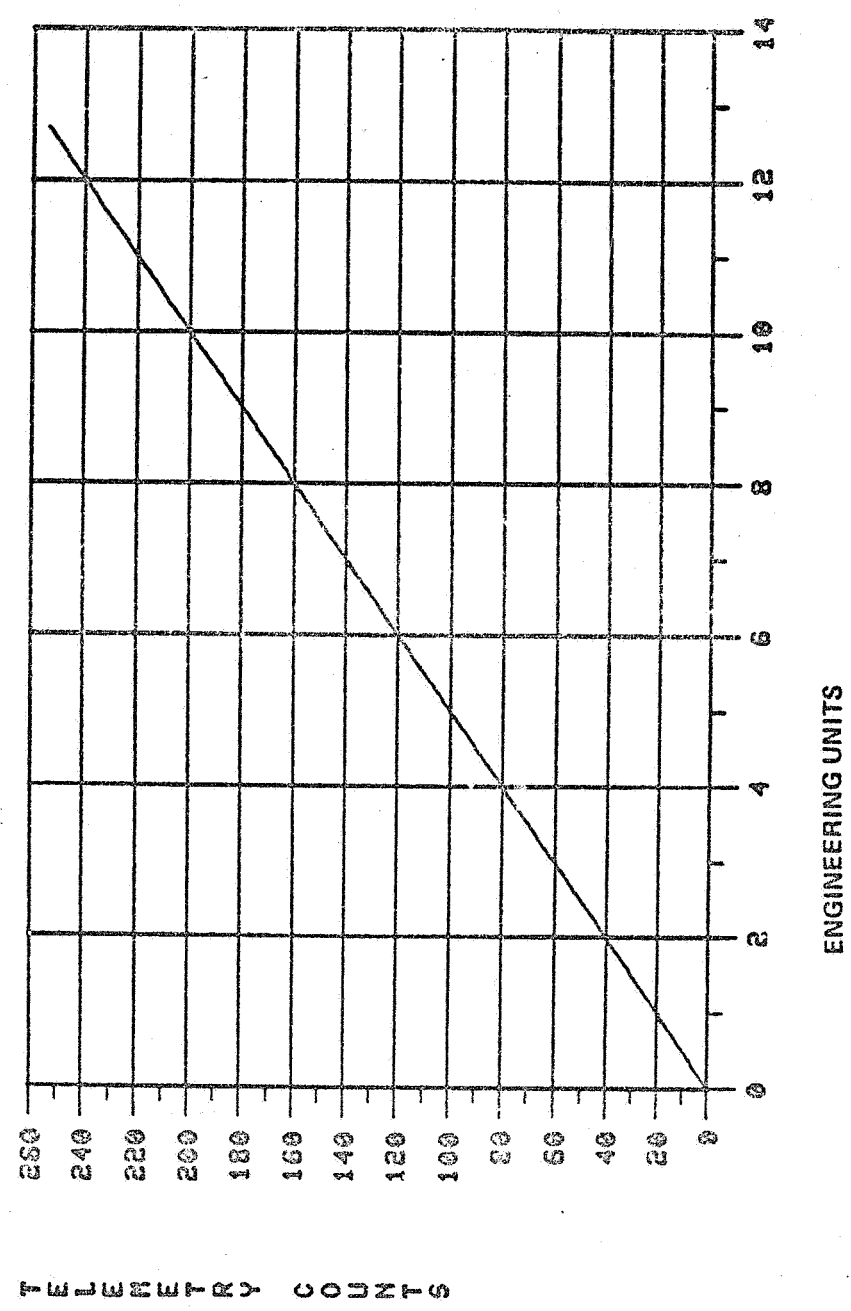
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COUNTS VS ENGINEERING UNITS FOR XGVR033



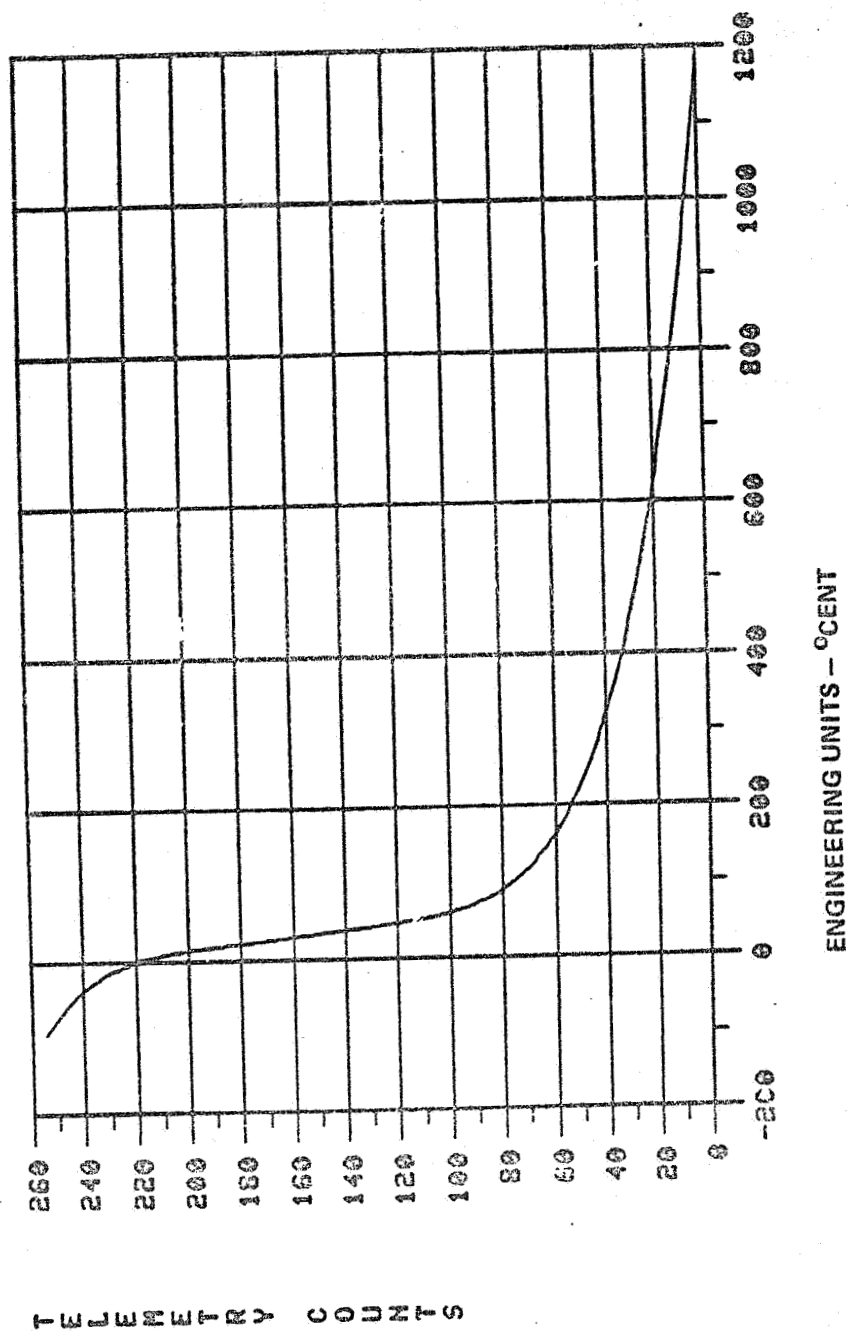
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COUNTS VS ENGINEERING UNITS FOR XGYR034



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COUNTS VS ENGINEERING UNITS FOR XTADSA



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APPENDIX A.19

THERMAL CONTROL SUBSYSTEM (TCS) TELEMETRY CALIBRATION DATA

The calibration curve coefficients for each telemetry point are controlled in the data base. They are listed along with the unit section number where the sensor is located. Tables showing the coefficients may be obtained from the data base administrator. The tables show telemetry volts (counts) vs. engineering units.

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THERMAL CONV. DEF.

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POINT    QTAPXF1    ; APEX FITTING NO. 1 TEMP in deg. centigrade
COEFF    QTAPXF1    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTAPXF2    ; APEX FITTING NO. 2 TEMP in deg. centigrade
COEFF    QTAPXF2    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTAPXF3    ; APEX FITTING NO. 3 TEMP in deg. centigrade
COEFF    QTAPXF3    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTARRY1    ; ARRAY TEMP NO. 1 in deg. centigrade
COEFF    QTARRY1    , -.2401E+3, .1552E+1, .2445E-2, -.1312E-5, -.5379E-7, .1481E-9
POINT    QTARRY2    ; ARRAY TEMP NO. 2 in deg. centigrade
COEFF    QTARRY2    , -.2401E+3, .1552E+1, .2445E-2, -.1312E-5, -.5379E-7, .1481E-9
POINT    QTARRY3    ; ARRAY TEMP NO. 3 in deg. centigrade
COEFF    QTARRY3    , -.2401E+3, .1552E+1, .2445E-2, -.1312E-5, -.5379E-7, .1481E-9
POINT    QTARRY4    ; ARRAY TEMP NO. 4 in deg. centigrade
COEFF    QTARRY4    , -.2401E+3, .1552E+1, .2445E-2, -.1312E-5, -.5379E-7, .1481E-9
POINT    QTBJPYO    ; BOOM JETTISON PYRO BRACKET TEMP in deg. centigrade
COEFF    QTBJPYO    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTBLF1     ; BOOM LATCHDOWN FITTING TEMP NO. 1 in deg. centigrade
COEFF    QTBLF1     , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTBLF2     ; BOOM LATCHDOWN FITTING TEMP NO. 2 in deg. centigrade
COEFF    QTBLF2     , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTCWWB1    ; CLOSING WEB (WB MODULE) NO. 1 TEMP in deg. centigrade
COEFF    QTCWWB1    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTCWWB2    ; CLOSING WEB (WB MODULE) NO. 2 TEMP in deg. centigrade
COEFF    QTCWWB2    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTEQPN4    ; EQUIP MTG PNL 4 TEMP (-Y) in deg. centigrade
COEFF    QTEQPN4    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTEQPN5    ; EQUIP MTG PNL 5 TEMP (-Y) in deg. centigrade
COEFF    QTEQPN5    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTEQPN6    ; EQUIP MTG PNL 6 TEMP (-Y) in deg. centigrade
COEFF    QTEQPN6    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTEQPP1    ; EQUIP MTG PNL 1 TEMP (+Y) in deg. centigrade
COEFF    QTEQPP1    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTEQPP2    ; EQUIP MTG PNL 2 TEMP (+Y) in deg. centigrade
COEFF    QTEQPP2    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTEQPP3    ; EQUIP MTG PNL 3 TEMP (+Y) in deg. centigrade
COEFF    QTEQPP3    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTGPSAP    ; GPS PRE-AMPLIFIER TEMP in deg. centigrade
COEFF    QTGPSAP    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTLBPWH    ; OUTER LOWER BOOM PWR HINGE TEMP in deg. centigrade
COEFF    QTLBPWH    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTLBPWH1   ; INNER LOWER BOOM PWR HINGE TEMP in deg. centigrade
COEFF    QTLBPWH1   , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTMSSMT    ; MSS MOUNT TEMP in deg. centigrade
COEFF    QTMSSMT    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTMSSW1    ; CLOSING WEB (MSS SENSOR) NO. 1 TEMP in deg. centigrade
COEFF    QTMSSW1    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT    QTMSSW2    ; CLOSING WEB (MSS SENSOR) NO. 2 TEMP in deg. centigrade
COEFF    QTMSSW2    , .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8

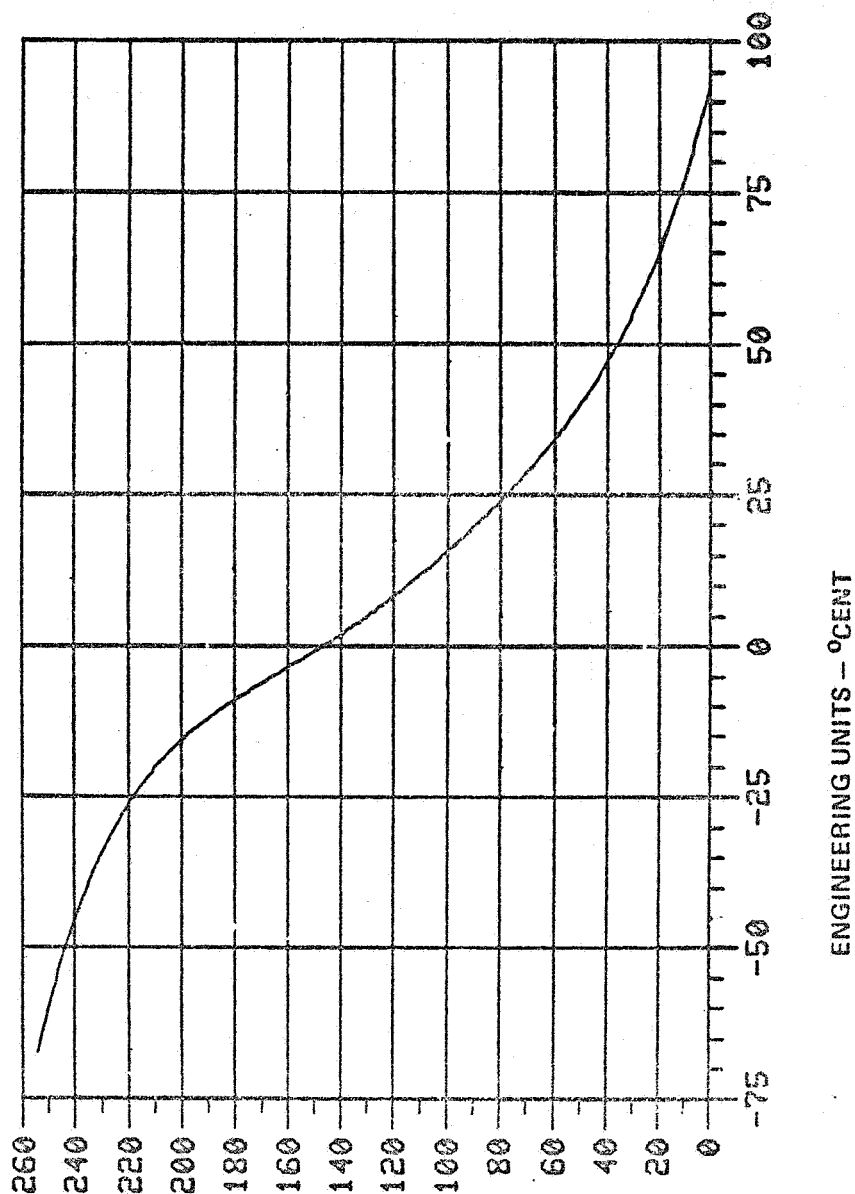
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POINT	QTNEGYK	: -Y KEEL STRUCTURE TEMP in deg. centigrade
COEFF	QTNEGYK	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTPDUIB	: PDU MTG PANEL (INBOARD) TEMP in deg. centigrade
COEFF	QTPDUIB	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTPDUOB	: PDU MTG PANEL (TOP OUTBOARD) TEMP in deg. centigrade
COEFF	QTPDUOB	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTPOSYK	: +Y KEEL STRUCTURE TEMP in deg. centigrade
COEFF	QTPOSYK	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTRFCPO	: RF COMBINER PANEL (OUTBOARD) TEMP in deg. centigrade
COEFF	QTRFCPO	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTRIU6I	: RIU 06 MOUNTING PANEL (INBOARD) TEMP in deg. centigrade
COEFF	QTRIU6I	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTRIU6O	: RIU 06 MOUNTING PANEL (OUTBOARD) TEMP in deg. centigrade
COEFF	QTRIU6O	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTSADPL	: SAD MOUNTING PANEL TEMP in deg. centigrade
COEFF	QTSADPL	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTSBXP1	: S-BAND XMTR PNL NO. 1 TEMP in deg. centigrade
COEFF	QTSBXP1	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTSBXP2	: S-BAND XMTR PNL NO. 2 TEMP in deg. centigrade
COEFF	QTSBXP2	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTTMAF1	: TM ATTACH FITTING NO. 1 TEMP in deg. centigrade
COEFF	QTTMAF1	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTTMAF2	: TM ATTACH FITTING NO. 2 TEMP in deg. centigrade
COEFF	QTTMAF2	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTTMAF3	: TM ATTACH FITTING NO. 3 TEMP in deg. centigrade
COEFF	QTTMAF3	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTTMAF4	: TM ATTACH FITTING NO. 4 TEMP in deg. centigrade
COEFF	QTTMAF4	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTUBIF	: UPPER BOOM TEMP in deg. centigrade
COEFF	QTUBIF	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTUBPWH	: UPPER BOOM PWR HINGE TEMP in deg. centigrade
COEFF	QTUBPWH	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8
POINT	QTYBKHD	: -Y BULKHEAD TEMP in deg. centigrade
COEFF	QTYBKHD	, .92447E+2, -.16969E+1, .18753E-1, -.14574E-3, .61211E-6, -.10389E-8

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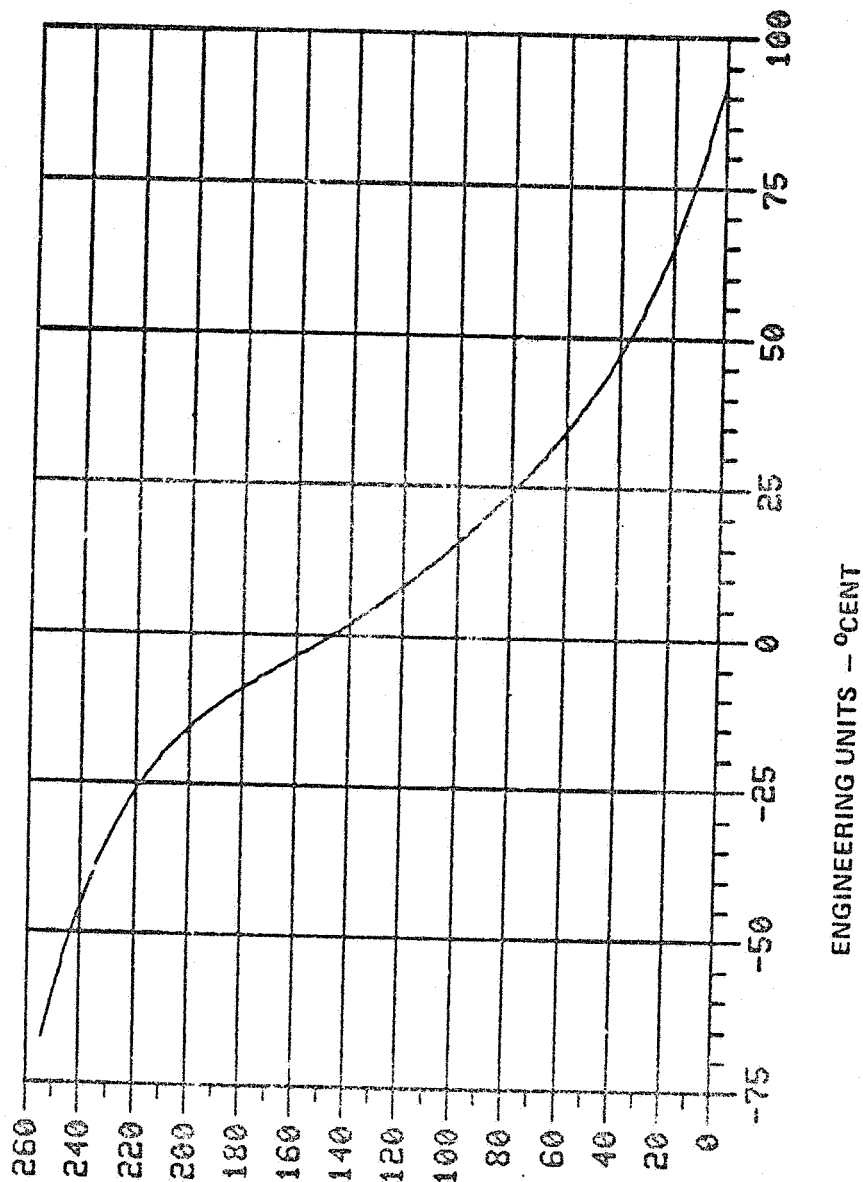
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TELEMETRY COUNTS

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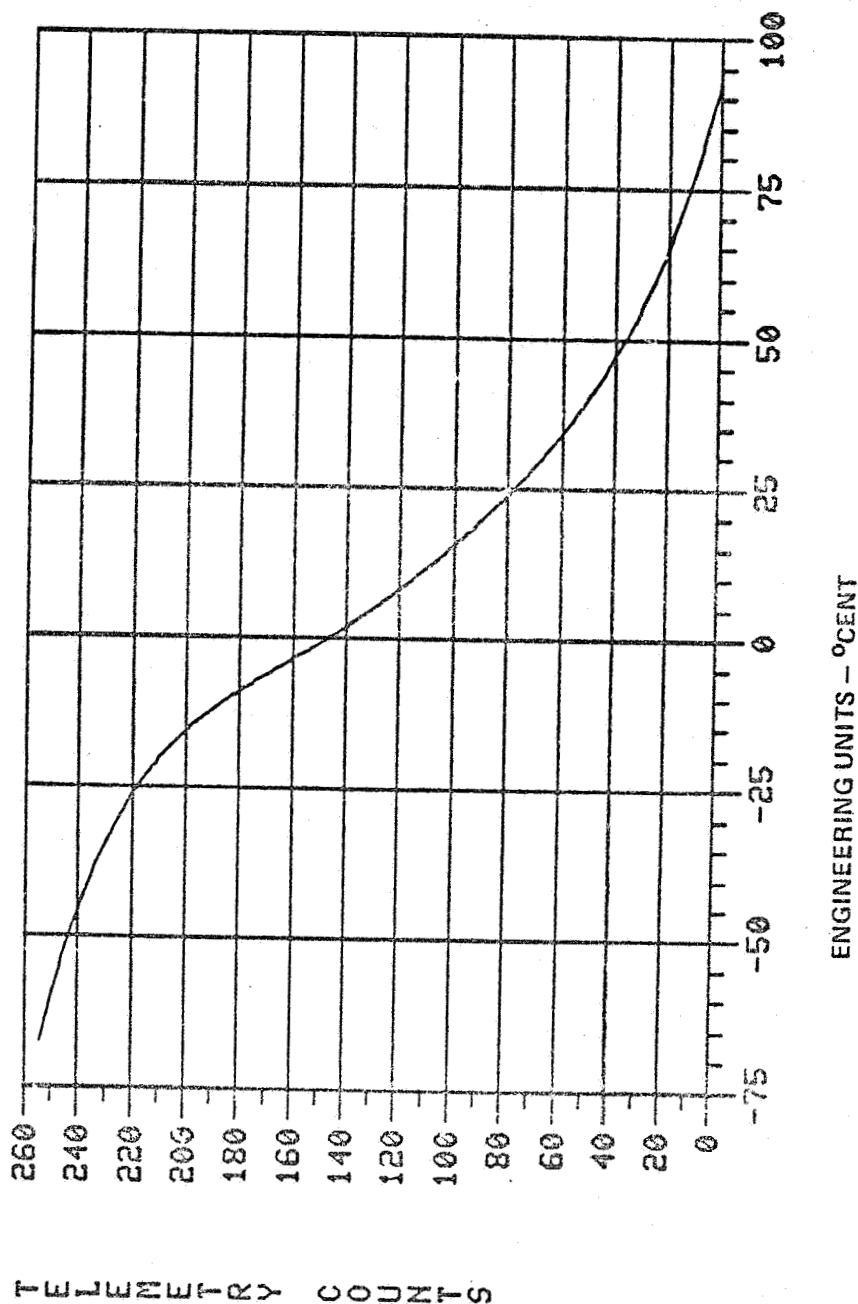
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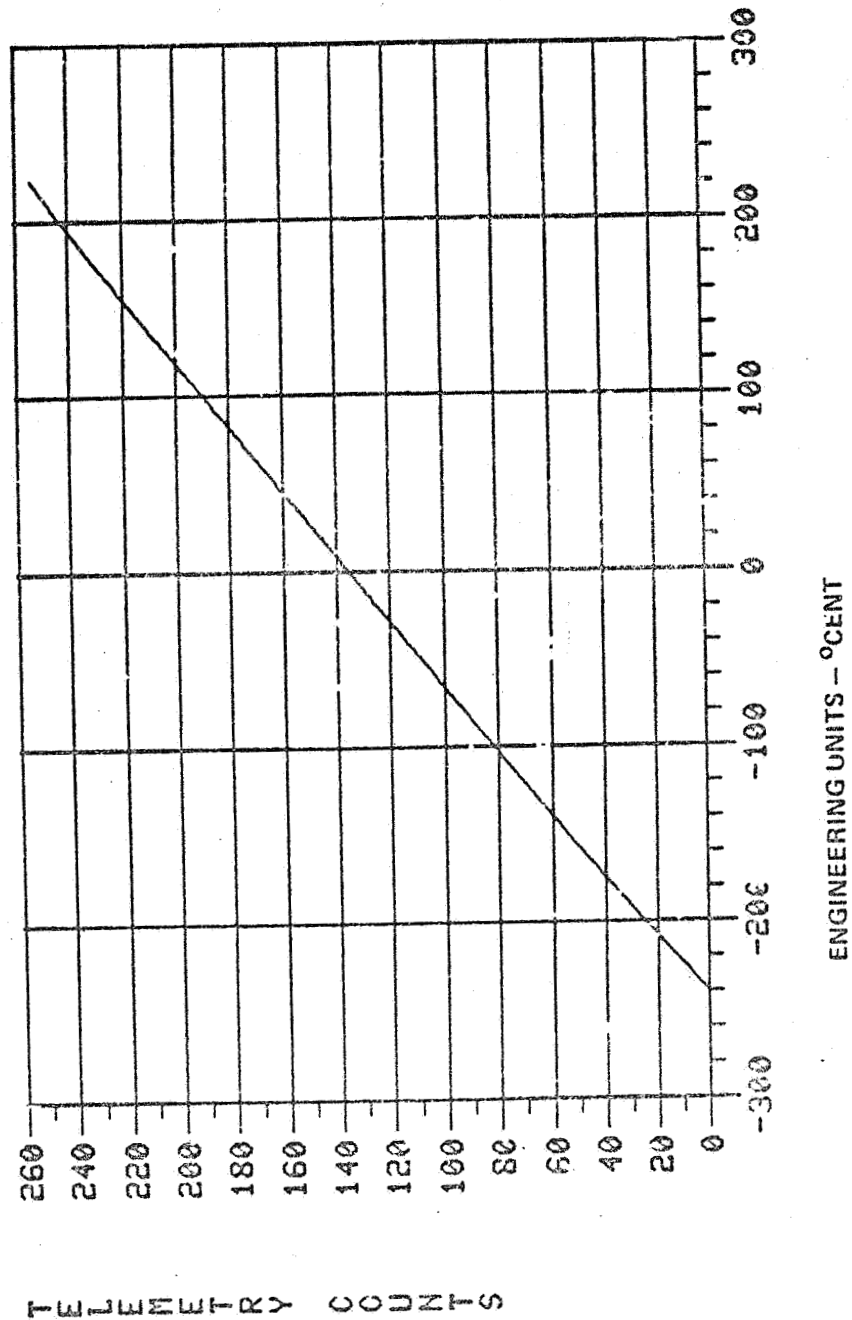
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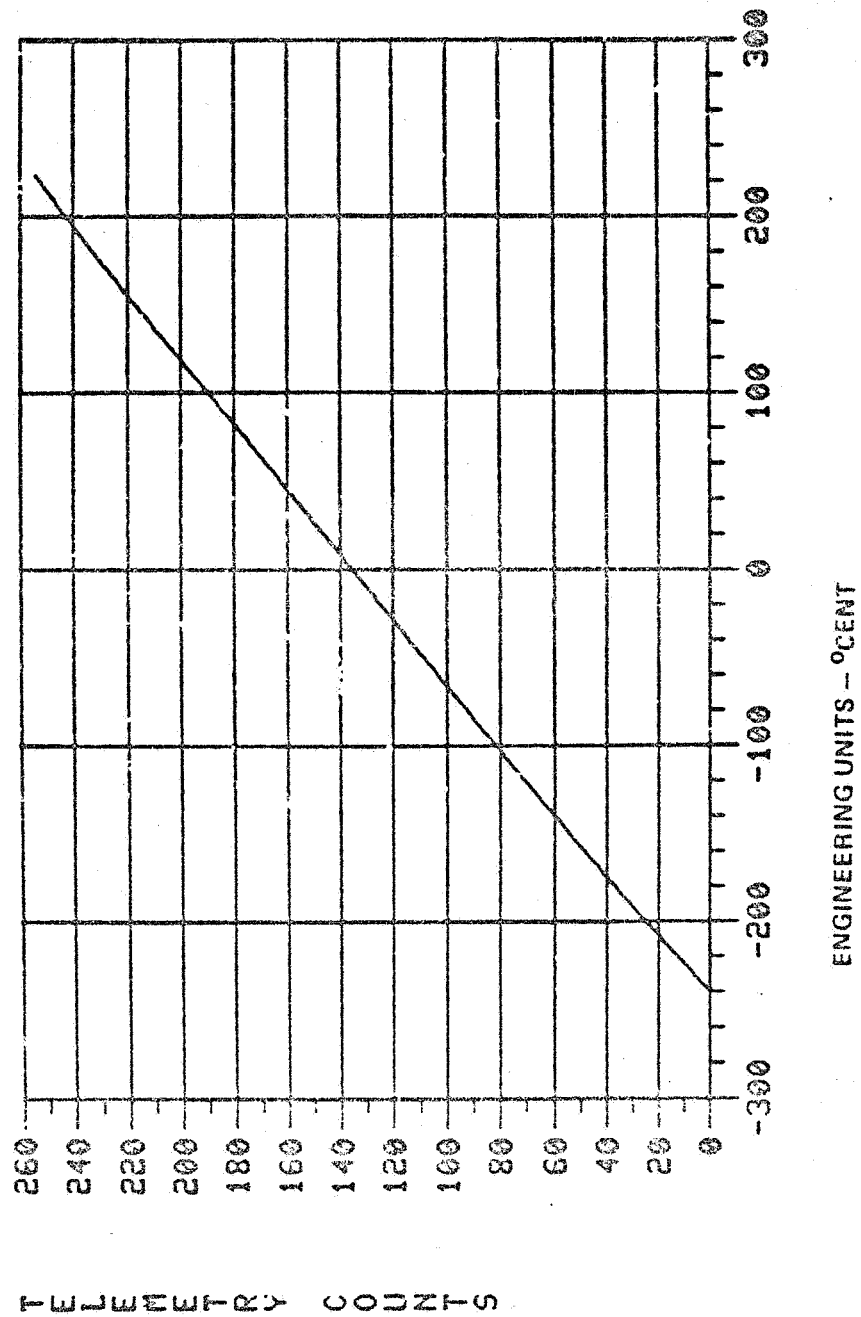
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COUNTS VS ENGINEERING UNITS FOR QTARRY1



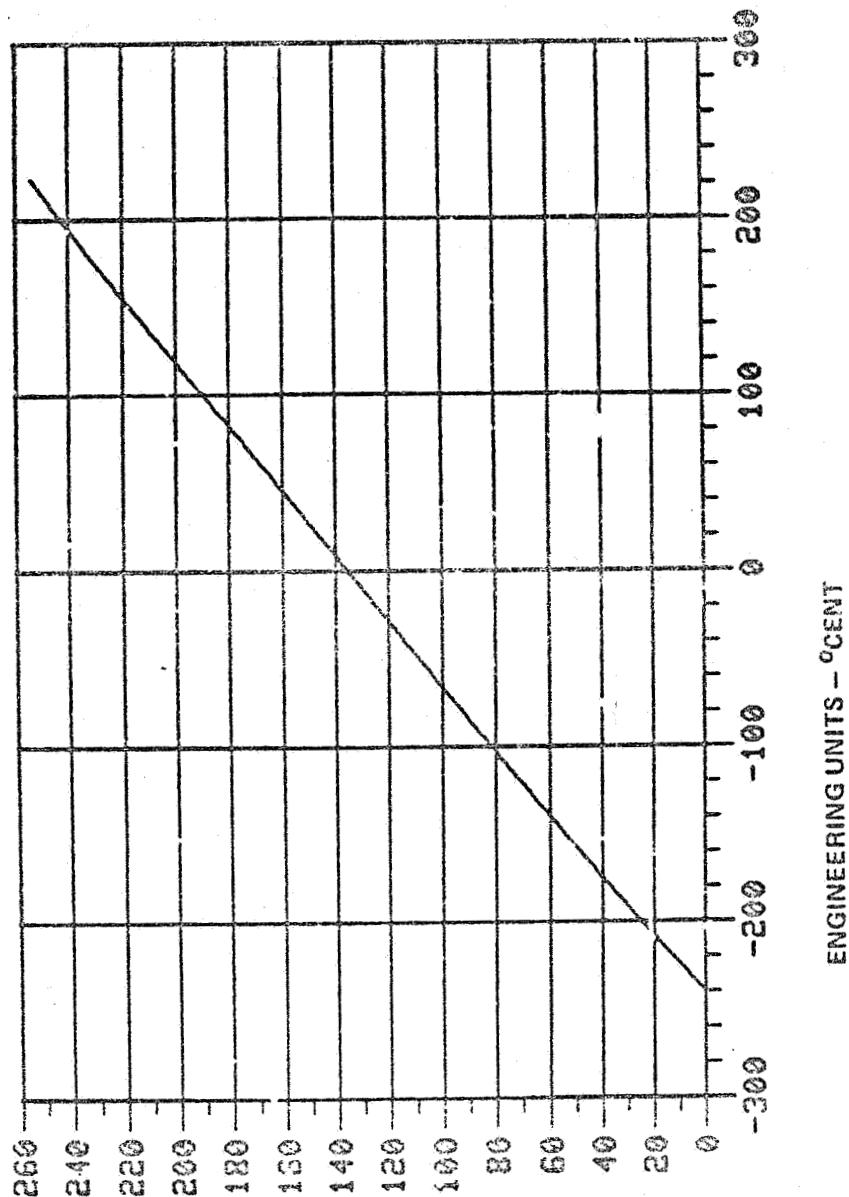
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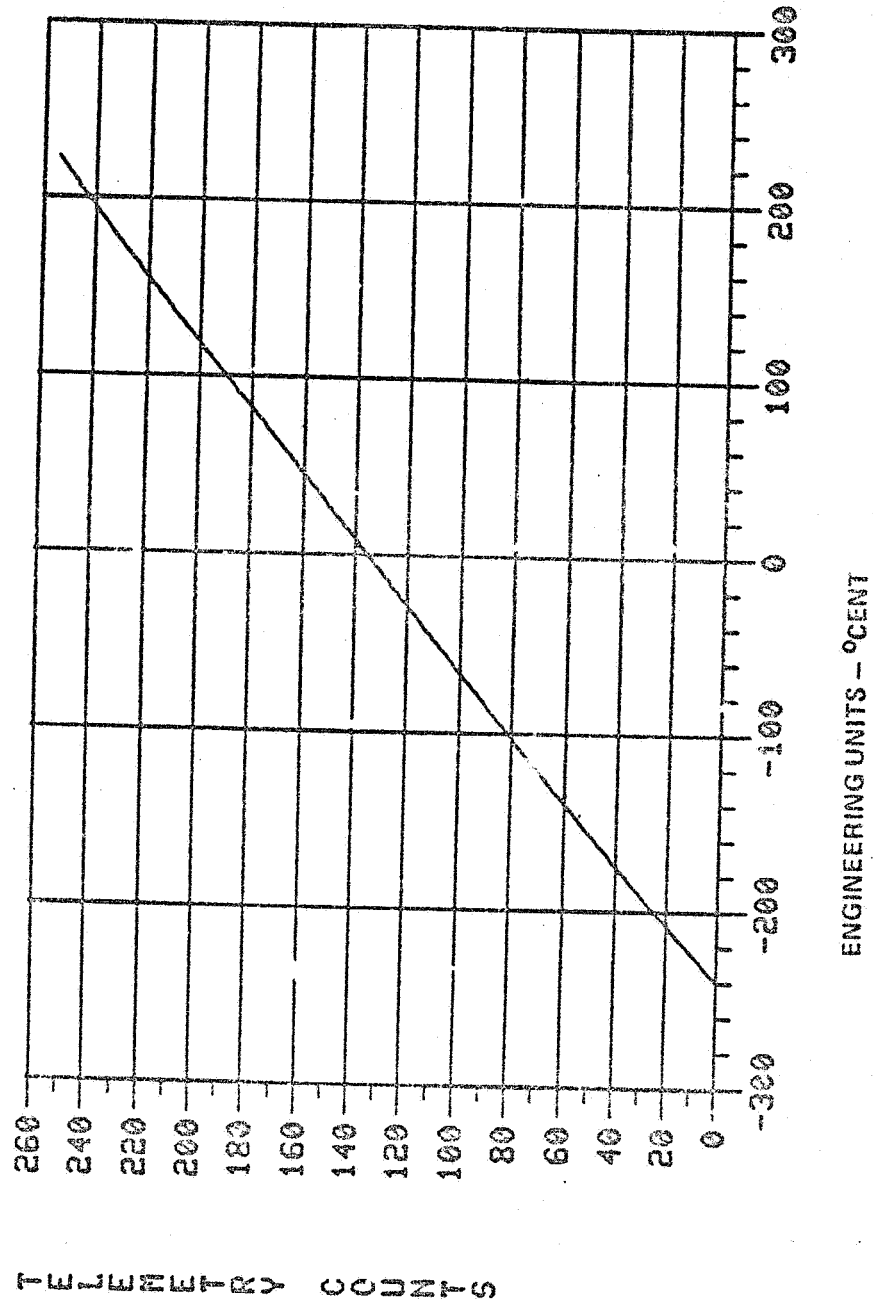


TELEMETRY COUNTS

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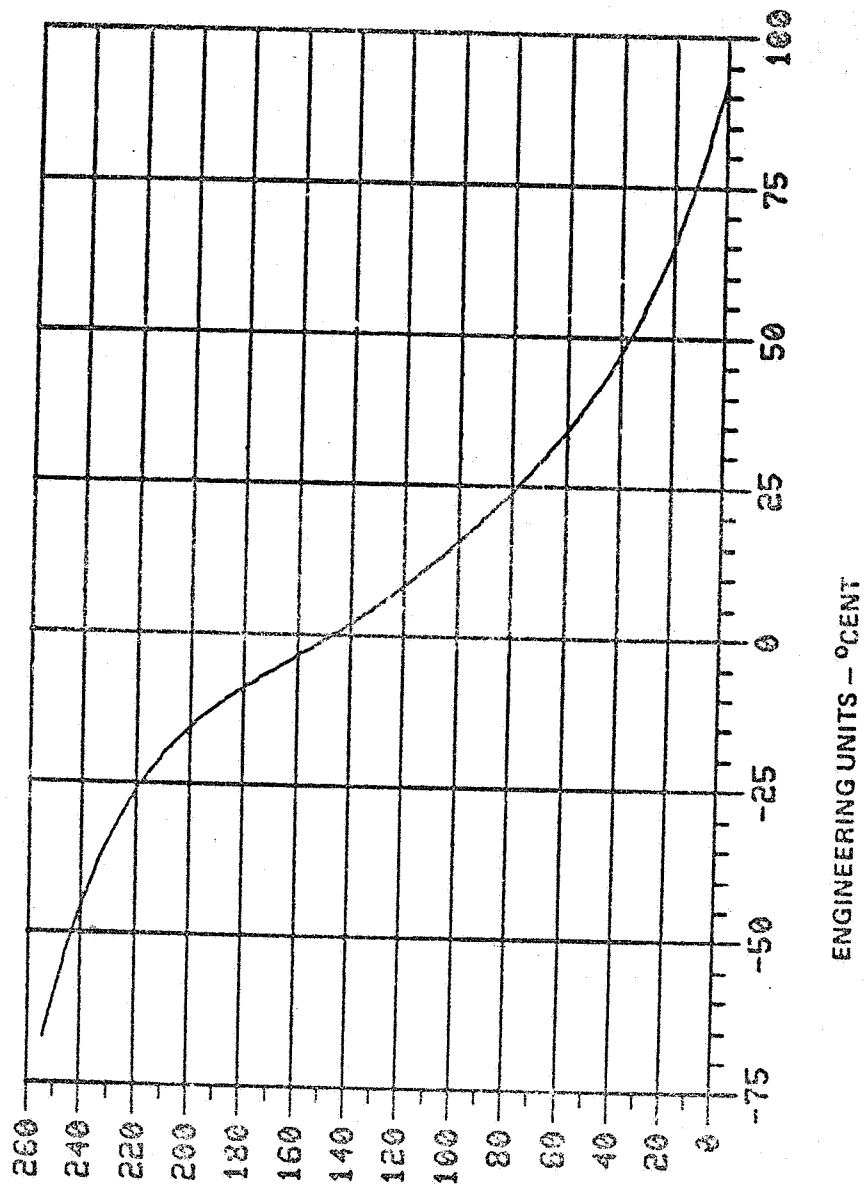
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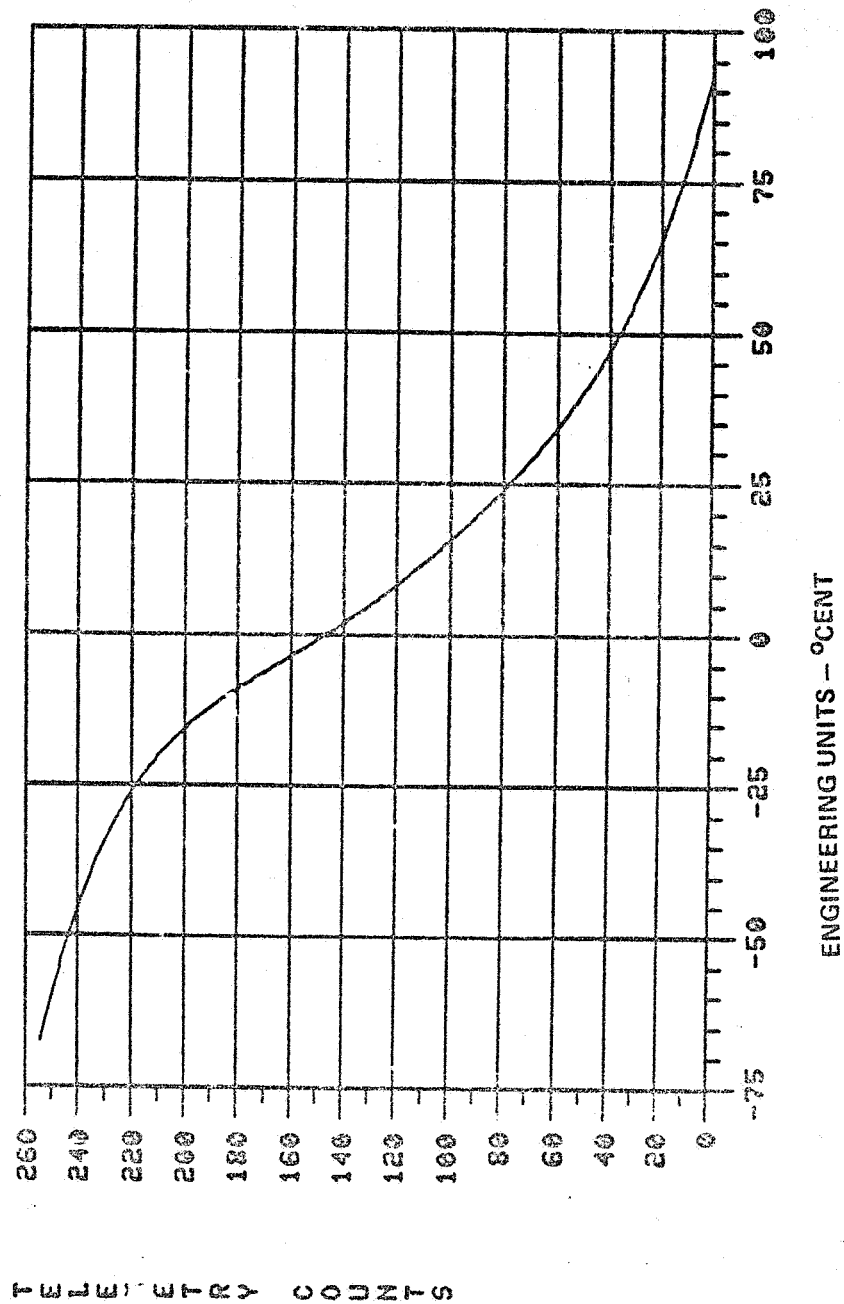
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TELEMETRY COUNTS

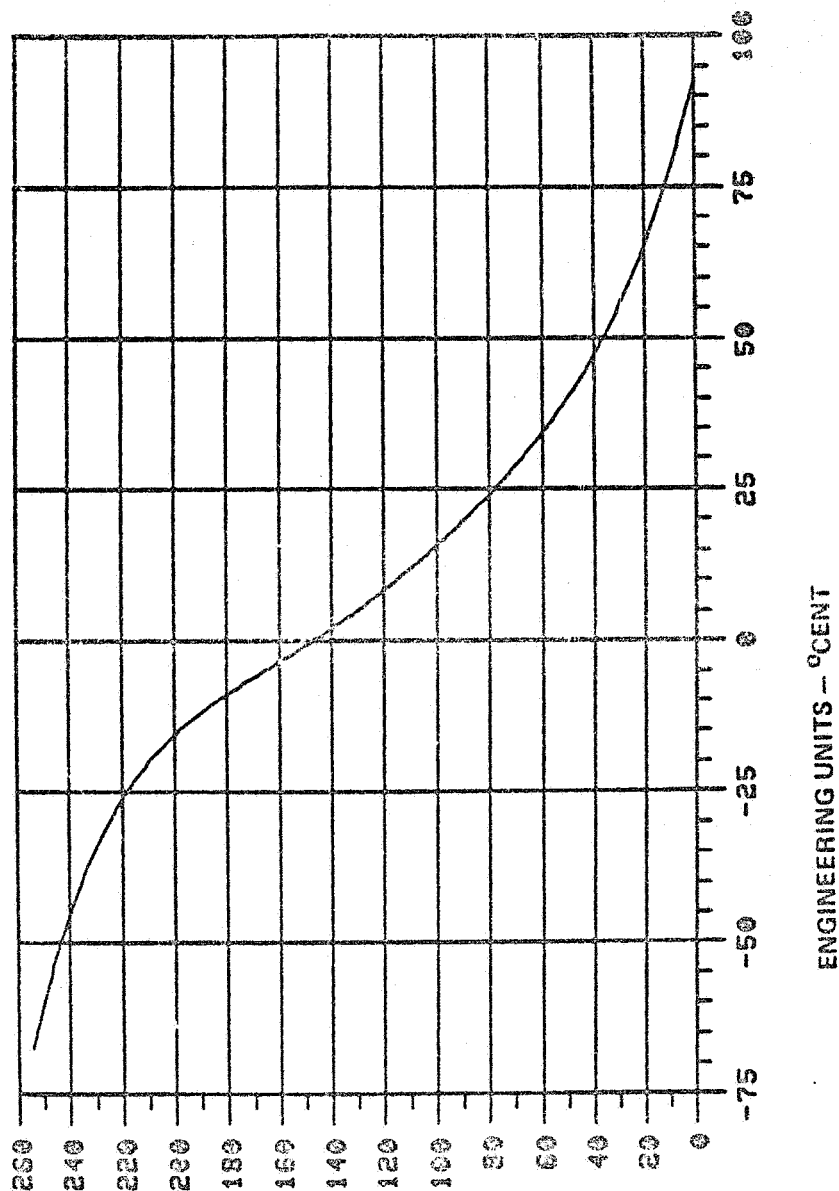
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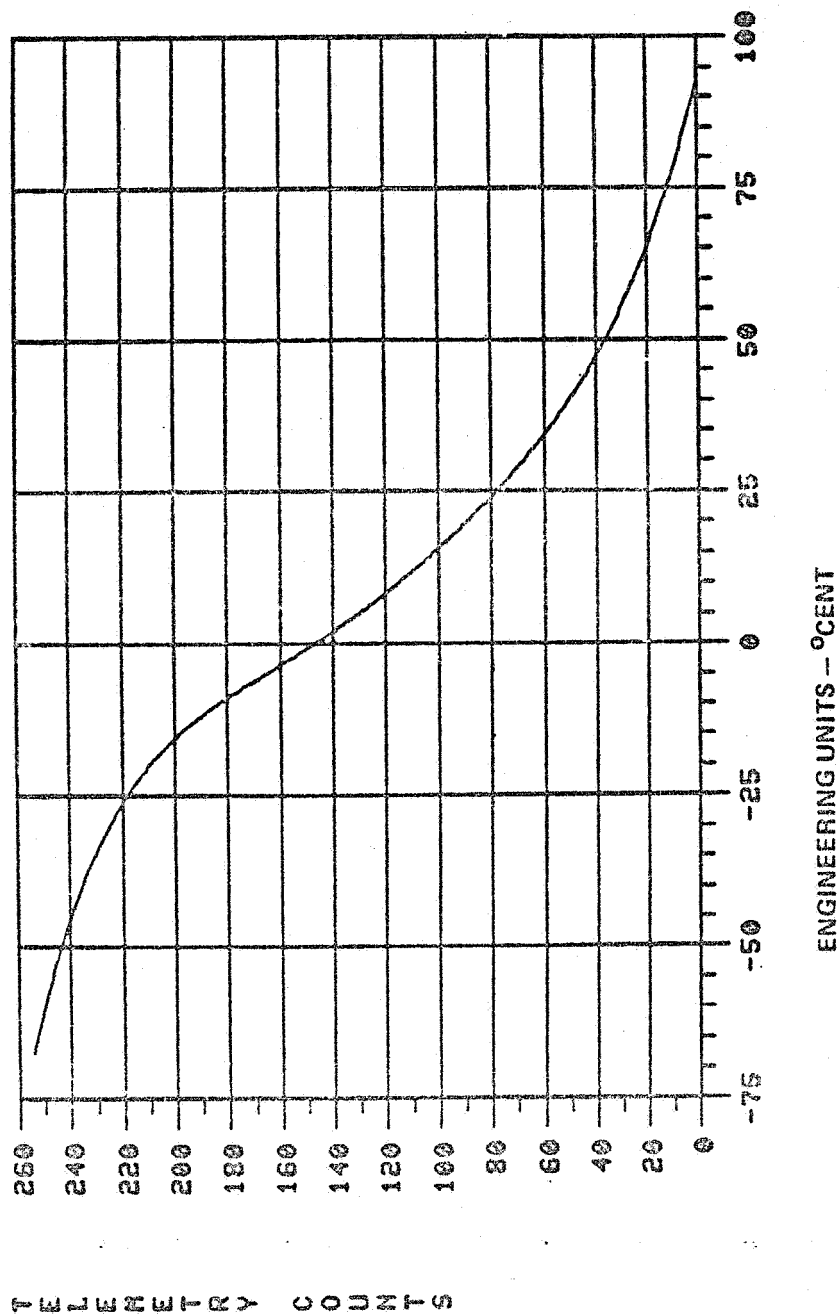


TELEMETRY COUNTS

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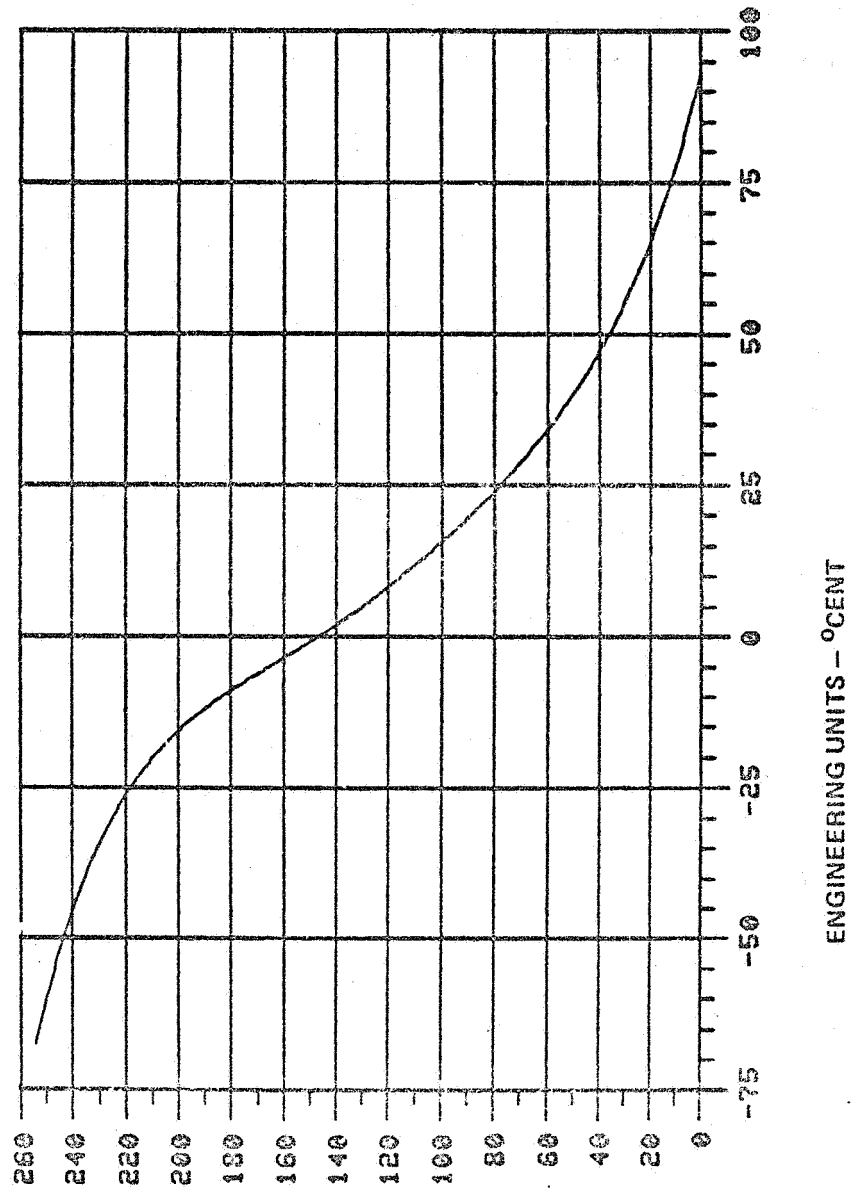
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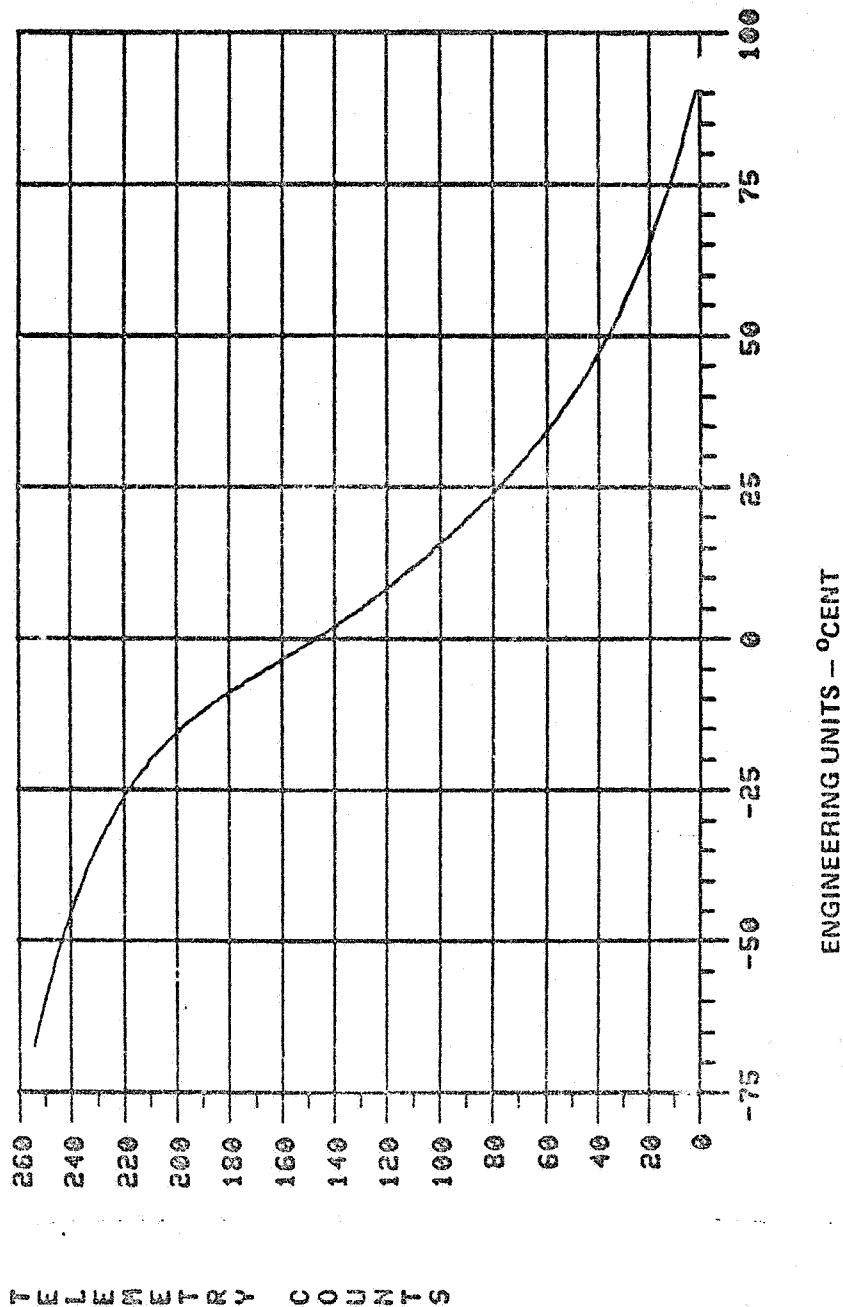


TELEMETRY COUNTS

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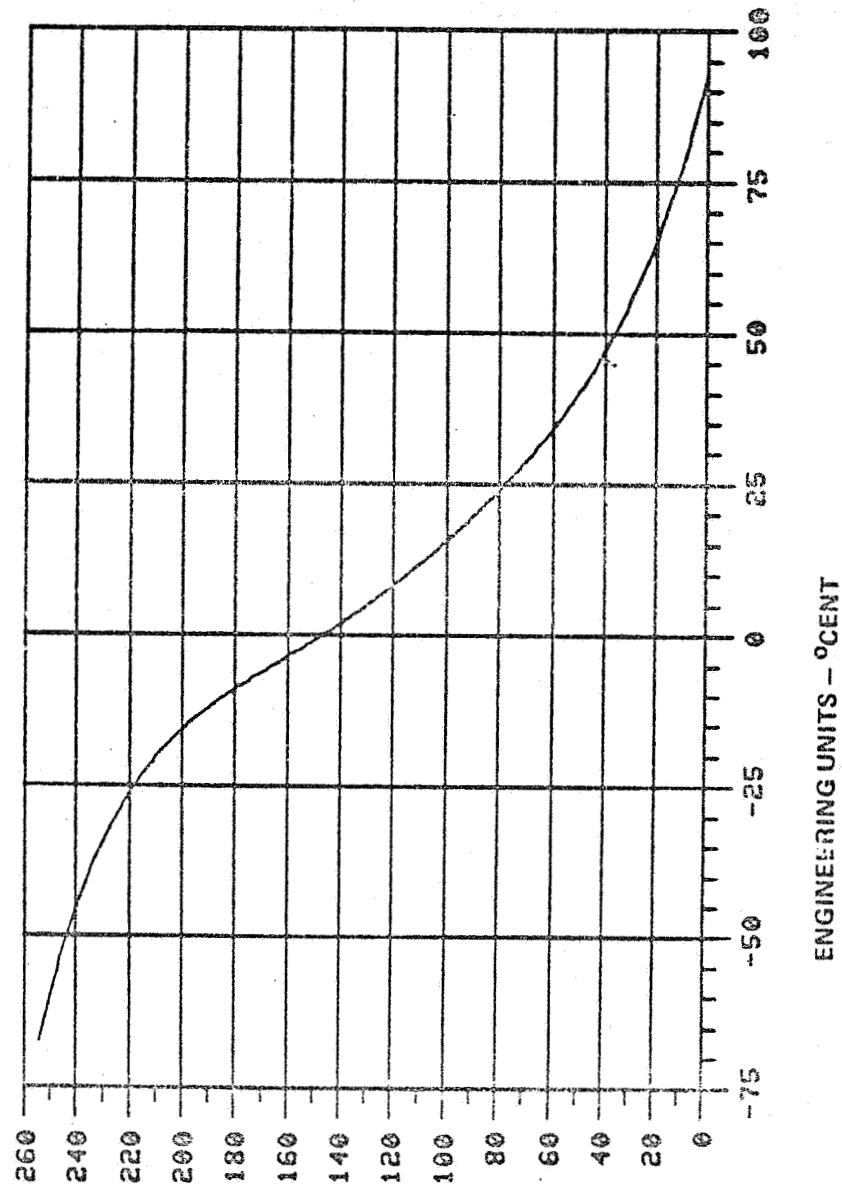
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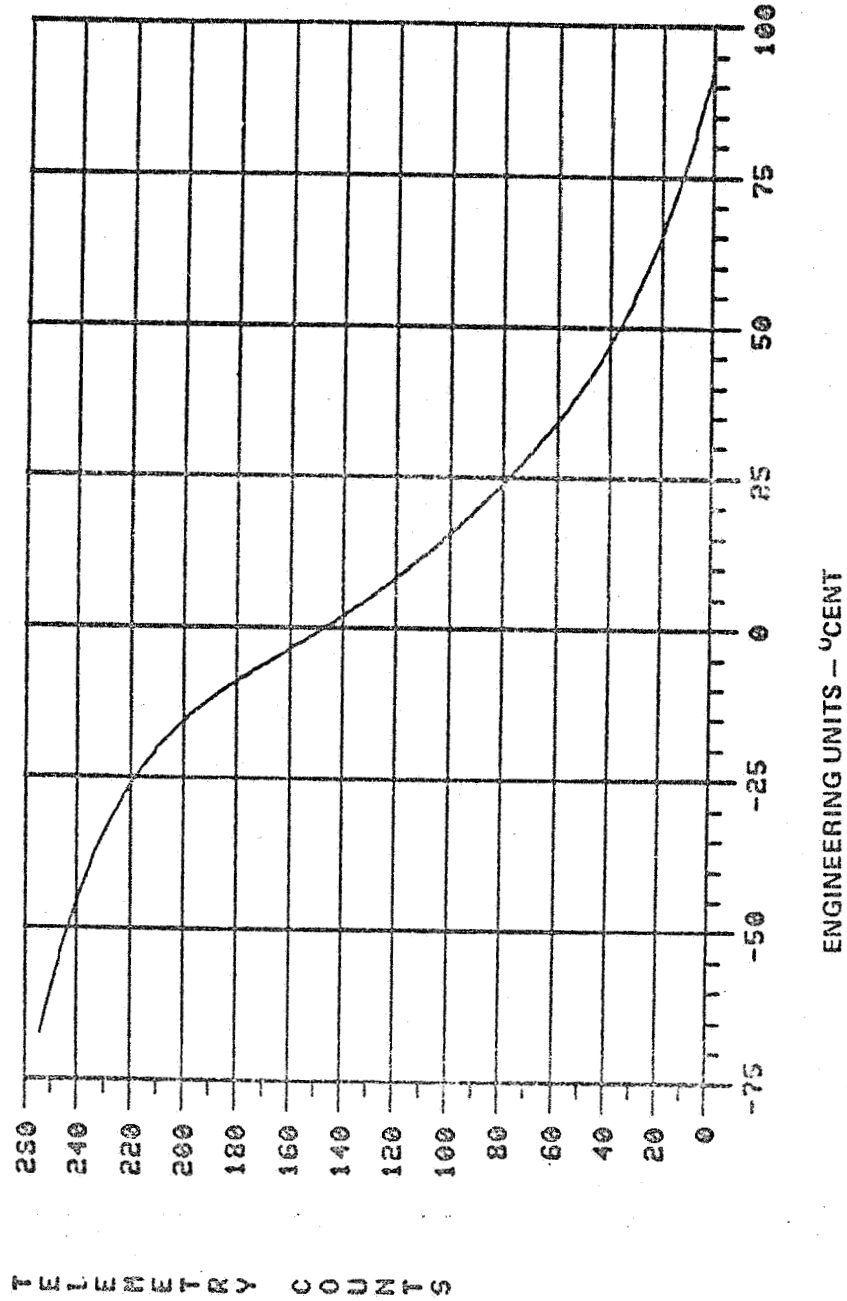
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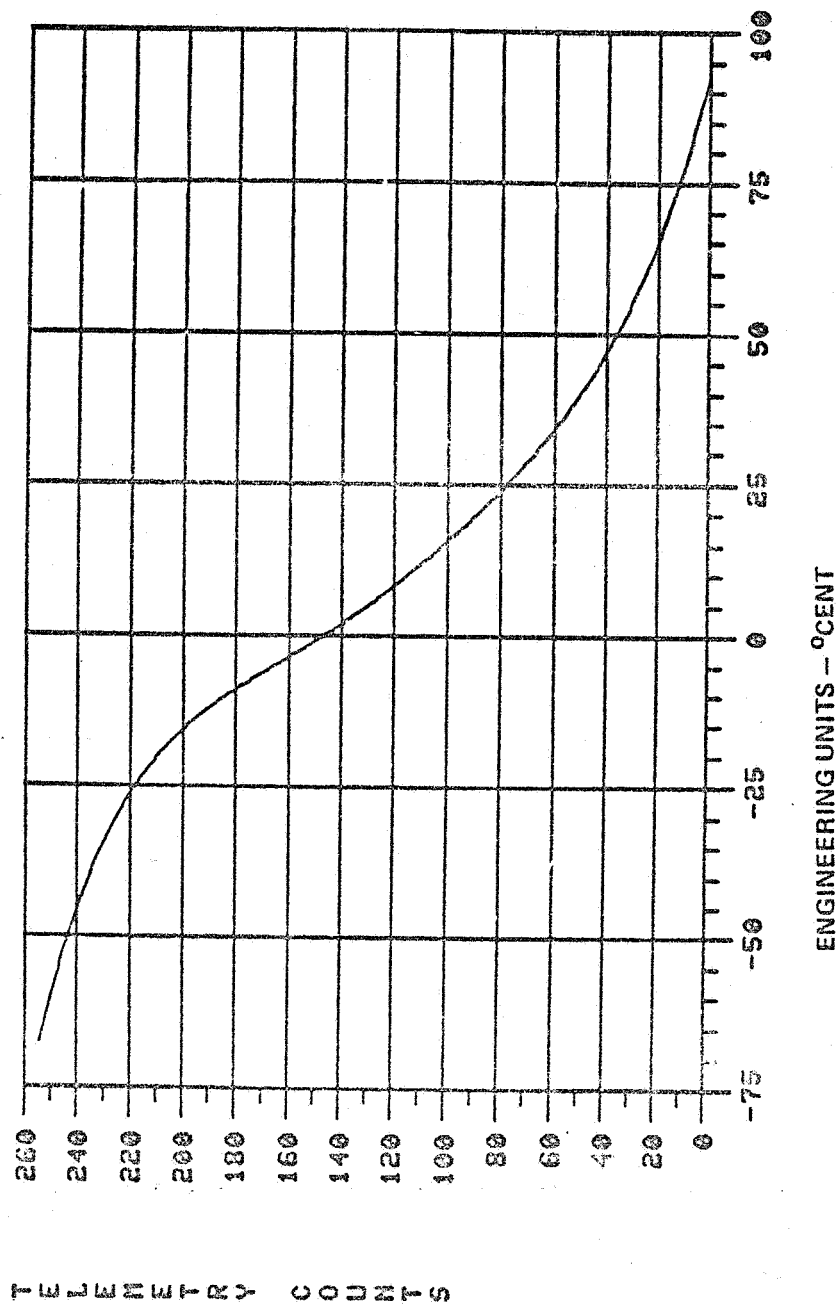
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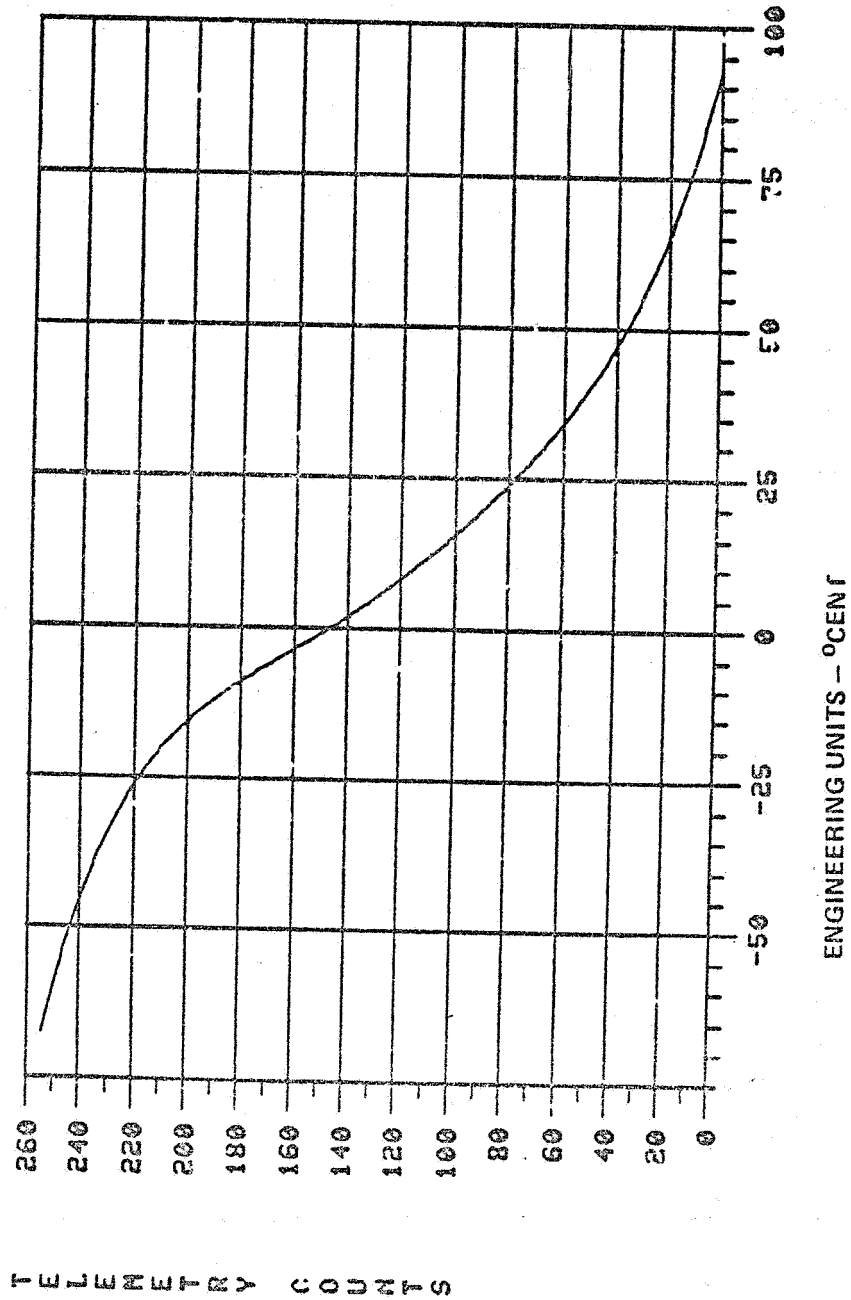
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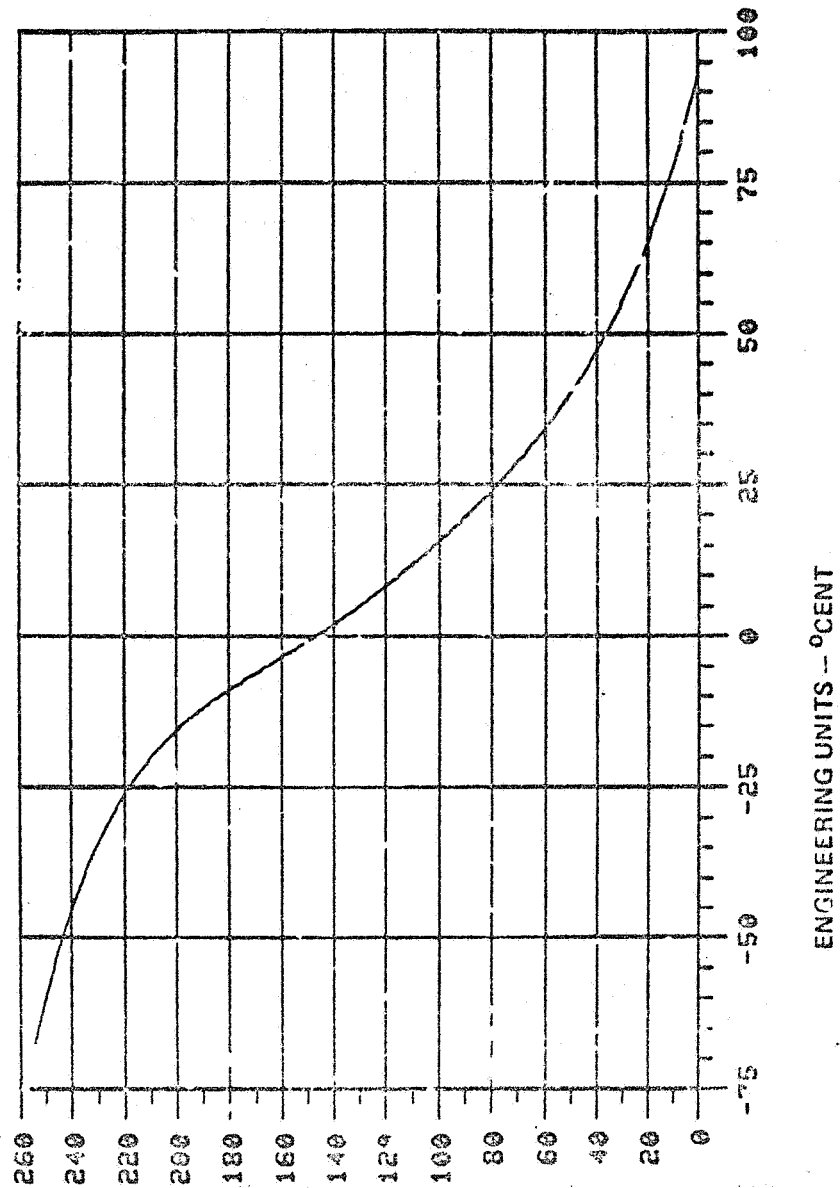
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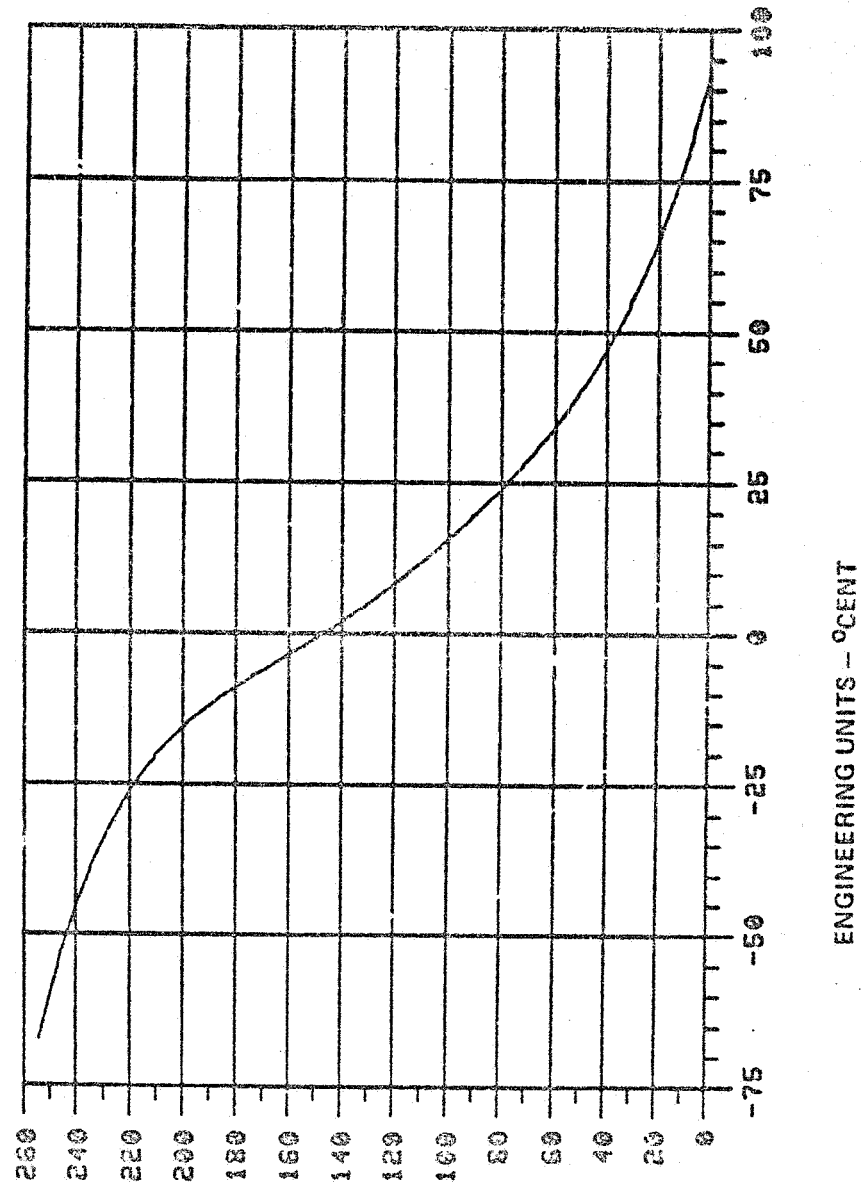
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TELEMETRY COUNTS

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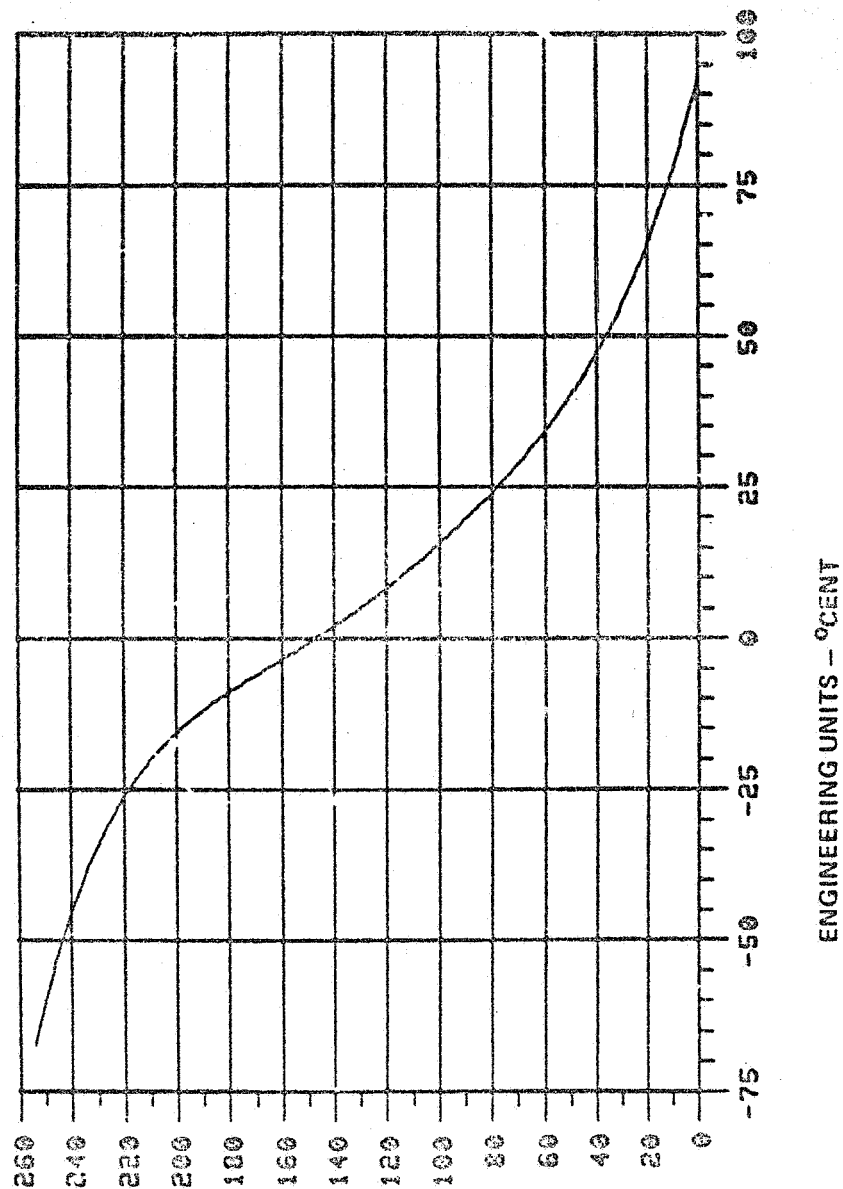
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TELEMETRY COUNTS

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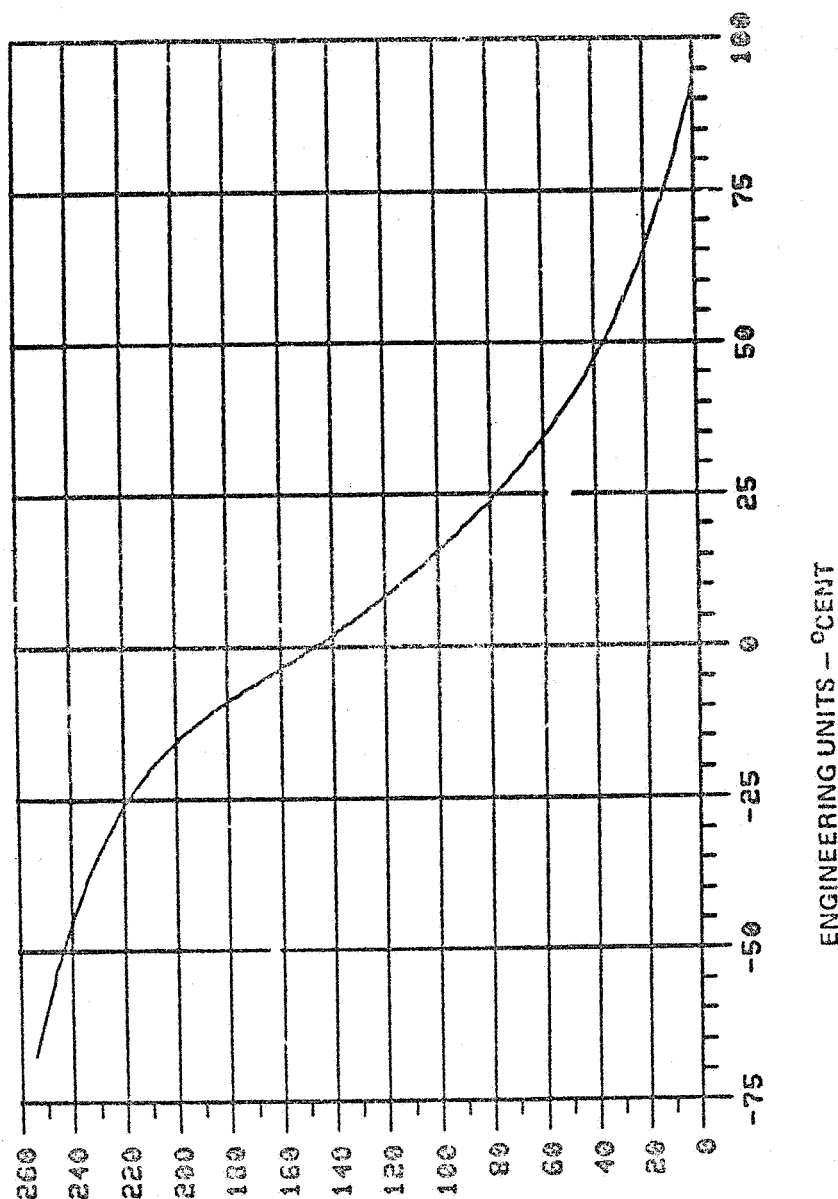
COUNTS US ENGINEERING UNITS FOR QTLBPUH



TELEMETRY COUNTS

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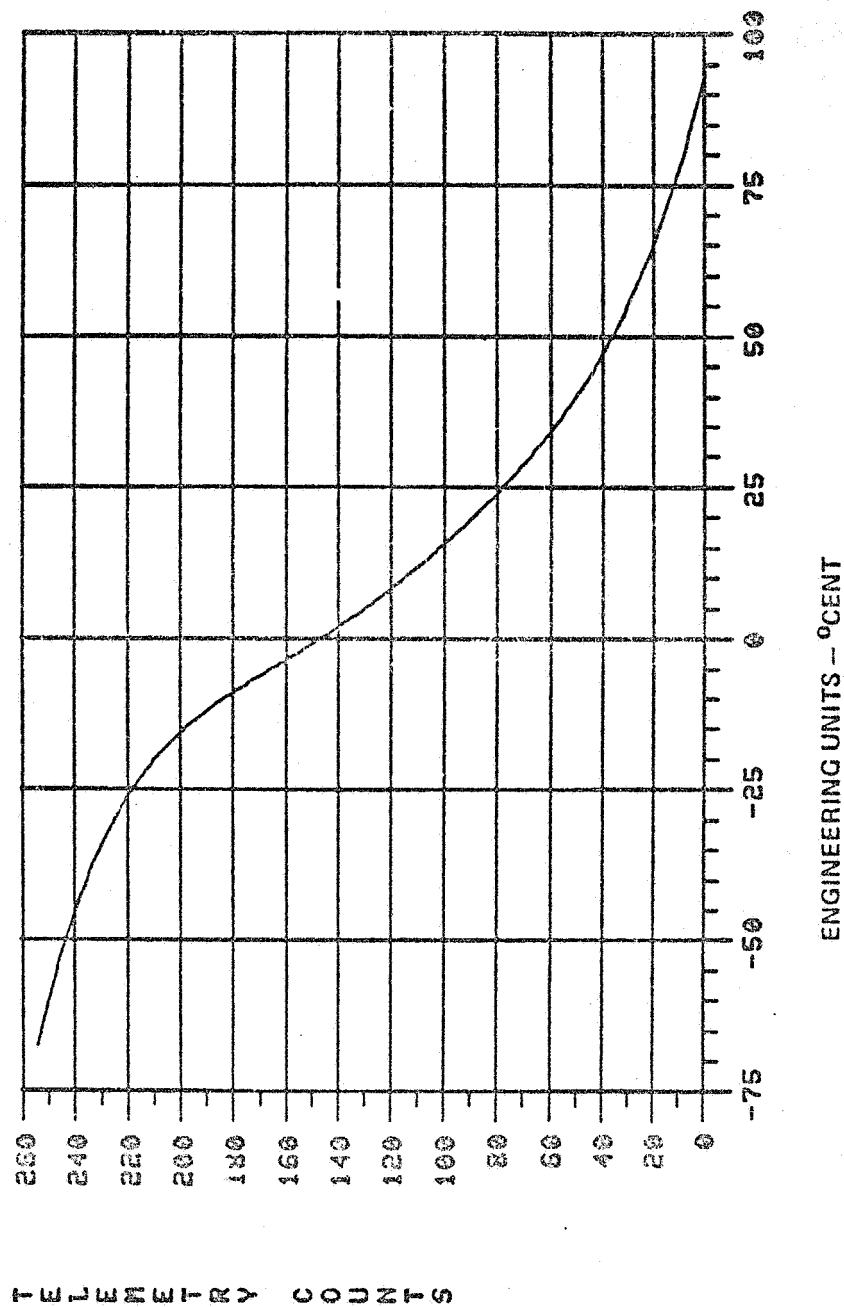
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TELEMETRY COUNTS

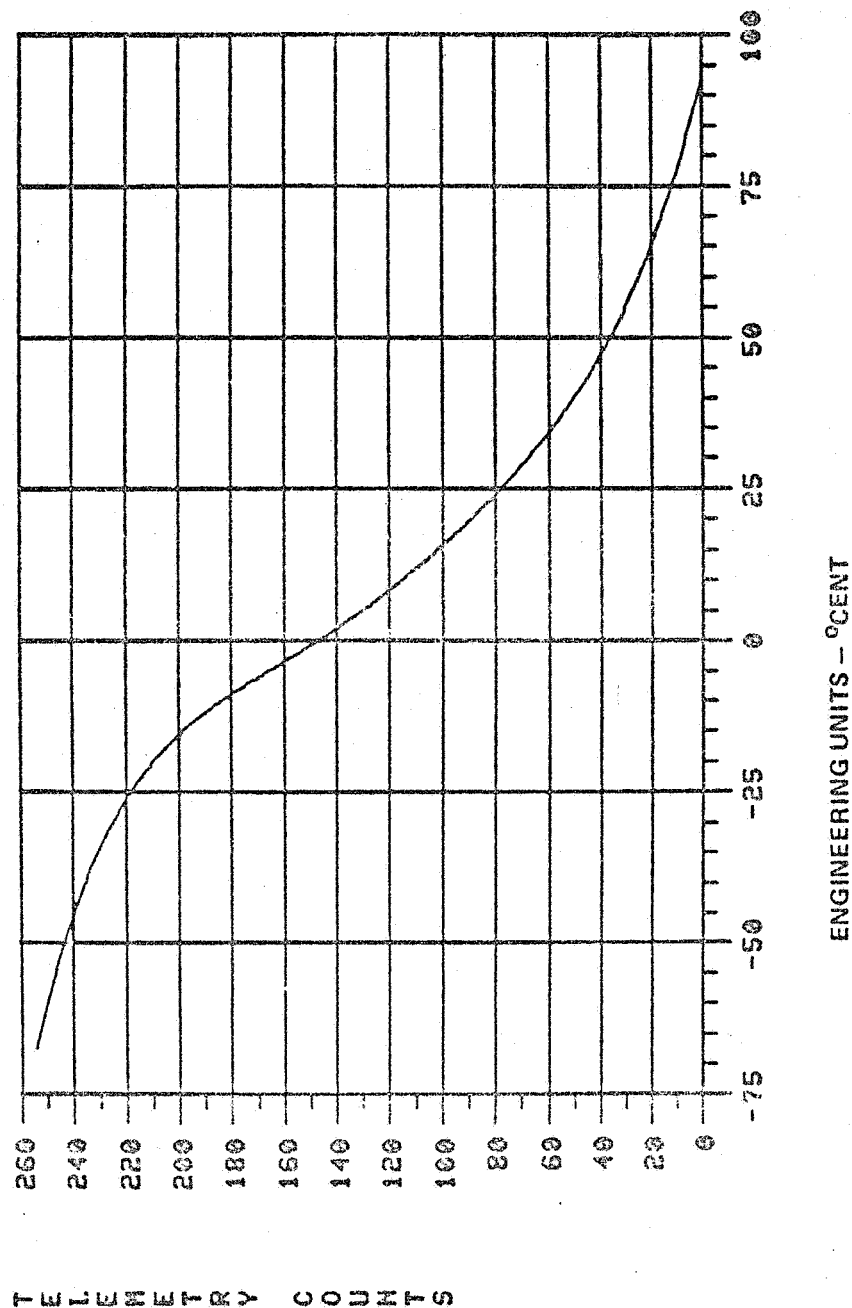
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COUNTS VS ENGINEERING UNITS FOR QTHSSNT



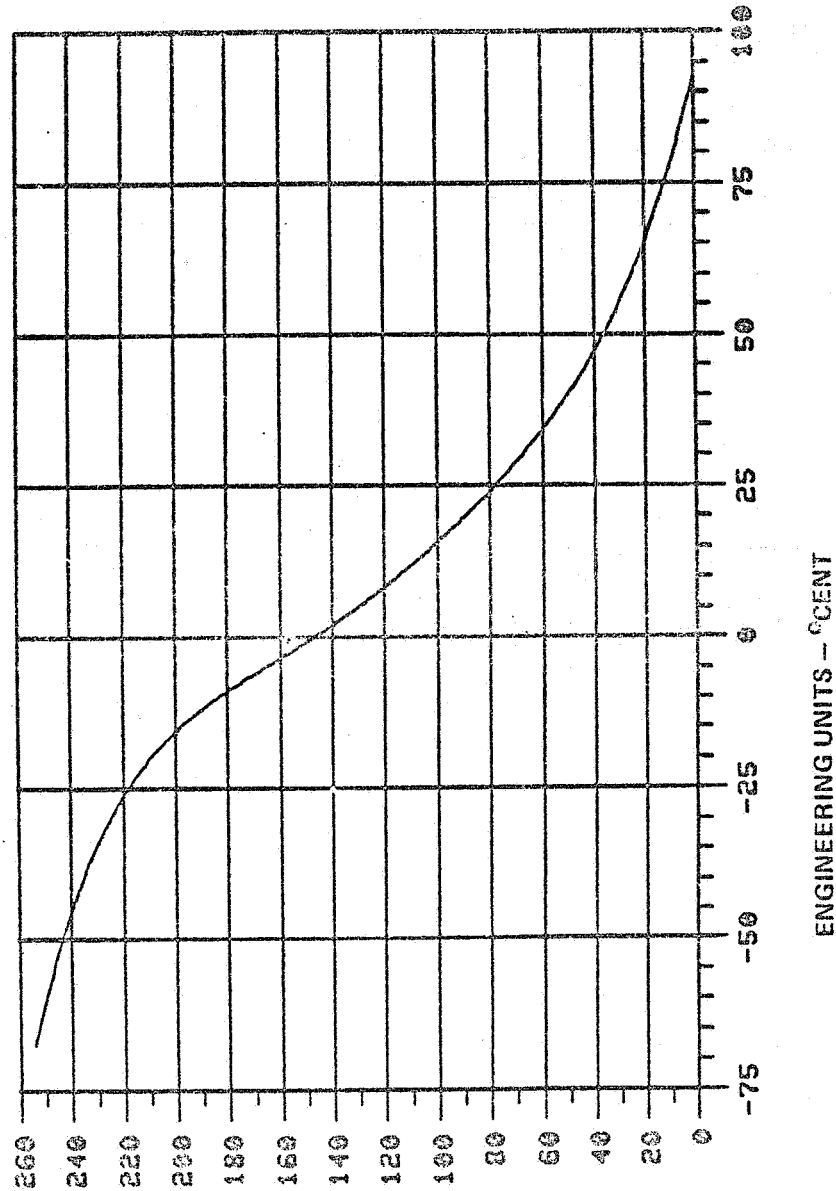
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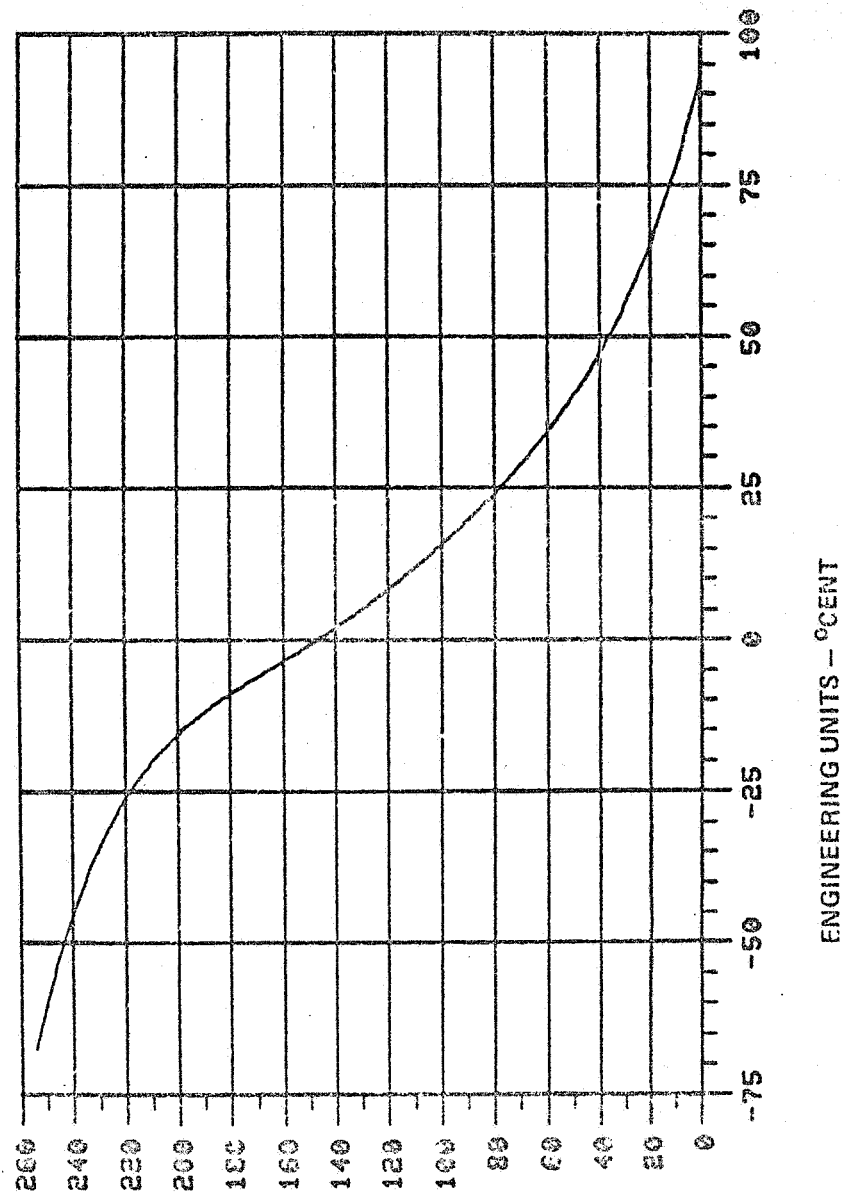
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ELEMENTARY COUNTS

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COUNTS VS ENGINEERING UNITS FOR QTNEGYK

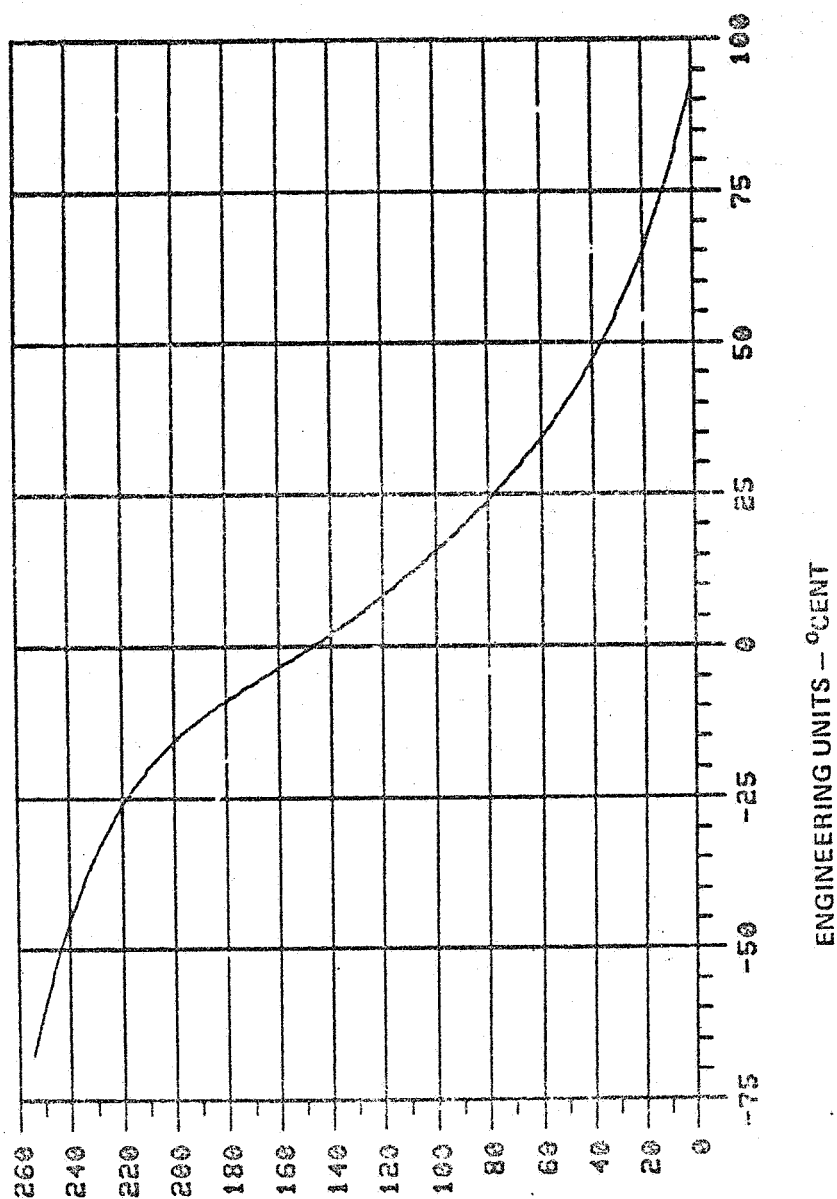


TELEMETRY COUNTS

ENGINEERING UNITS - °CENT

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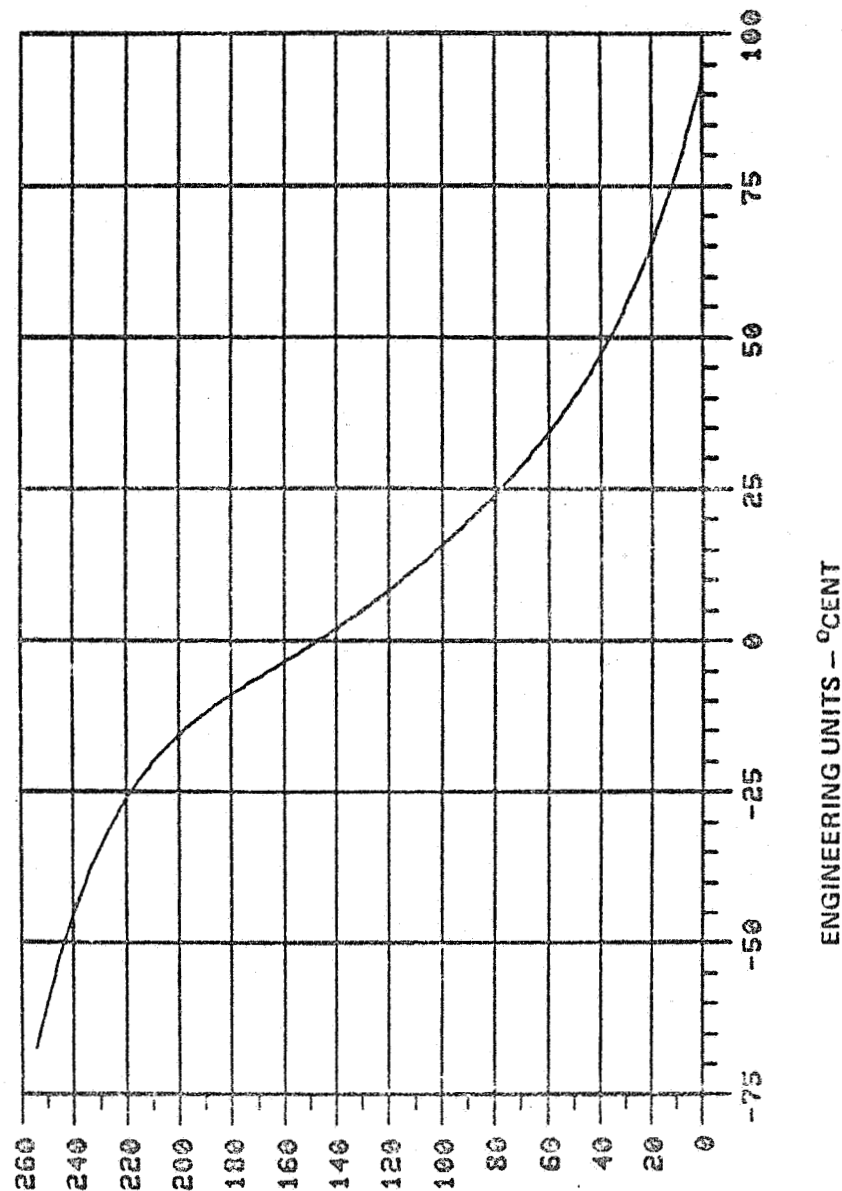
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TELEMETRY COUNTS

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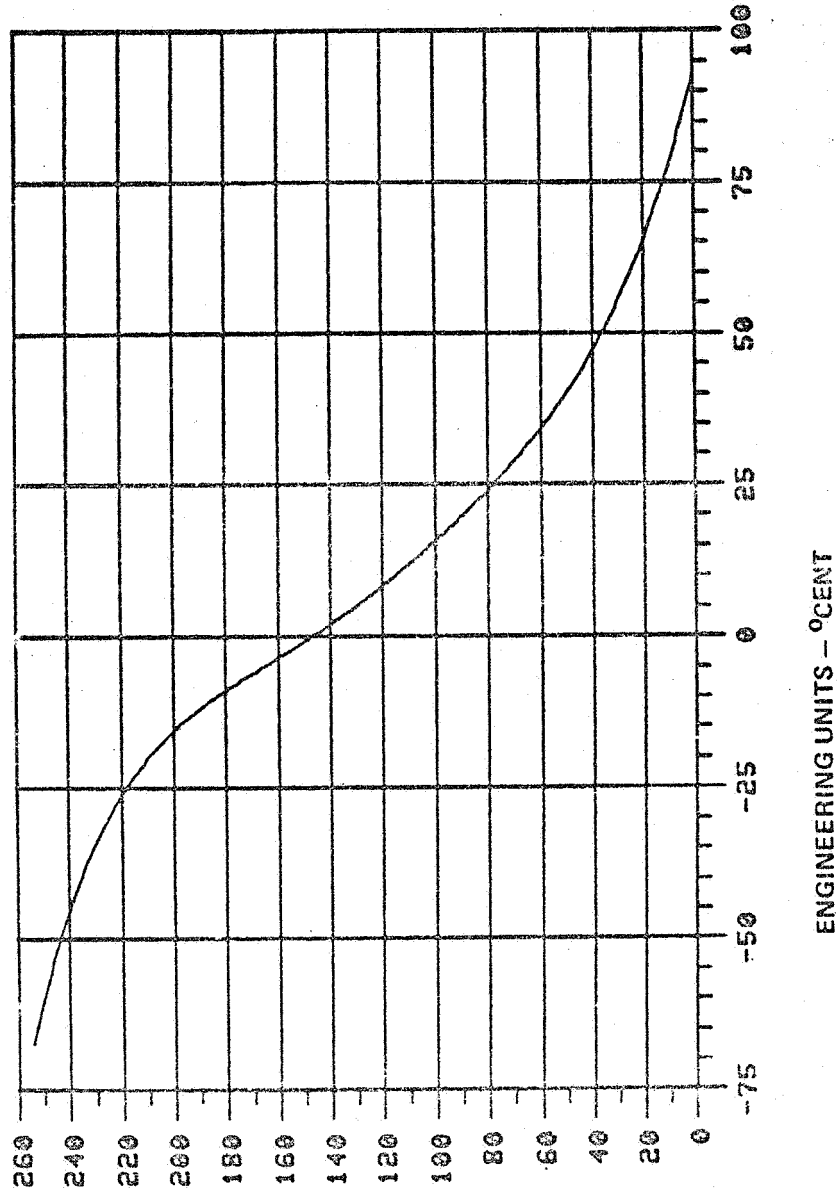
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TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR QTPOSVK

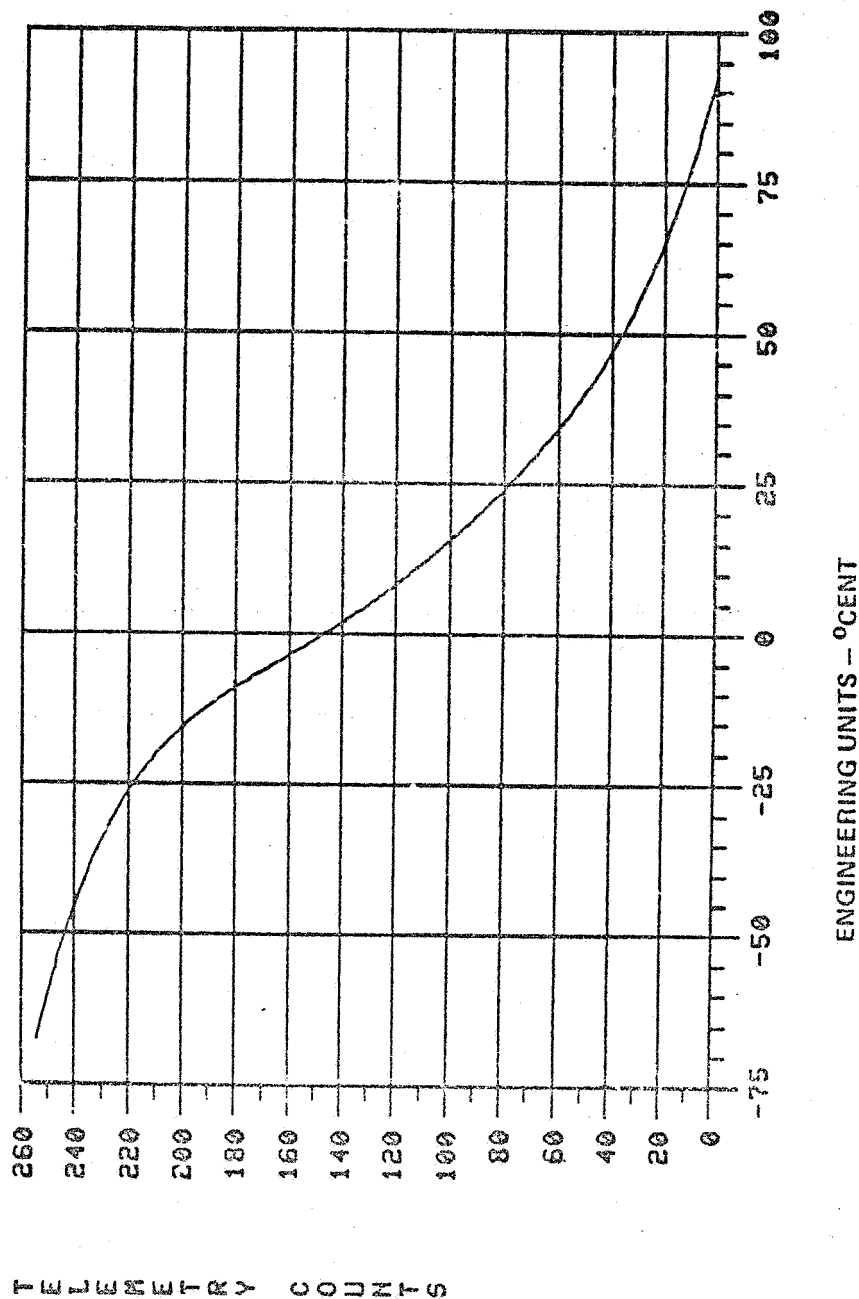


TELEMETRY COUNTS

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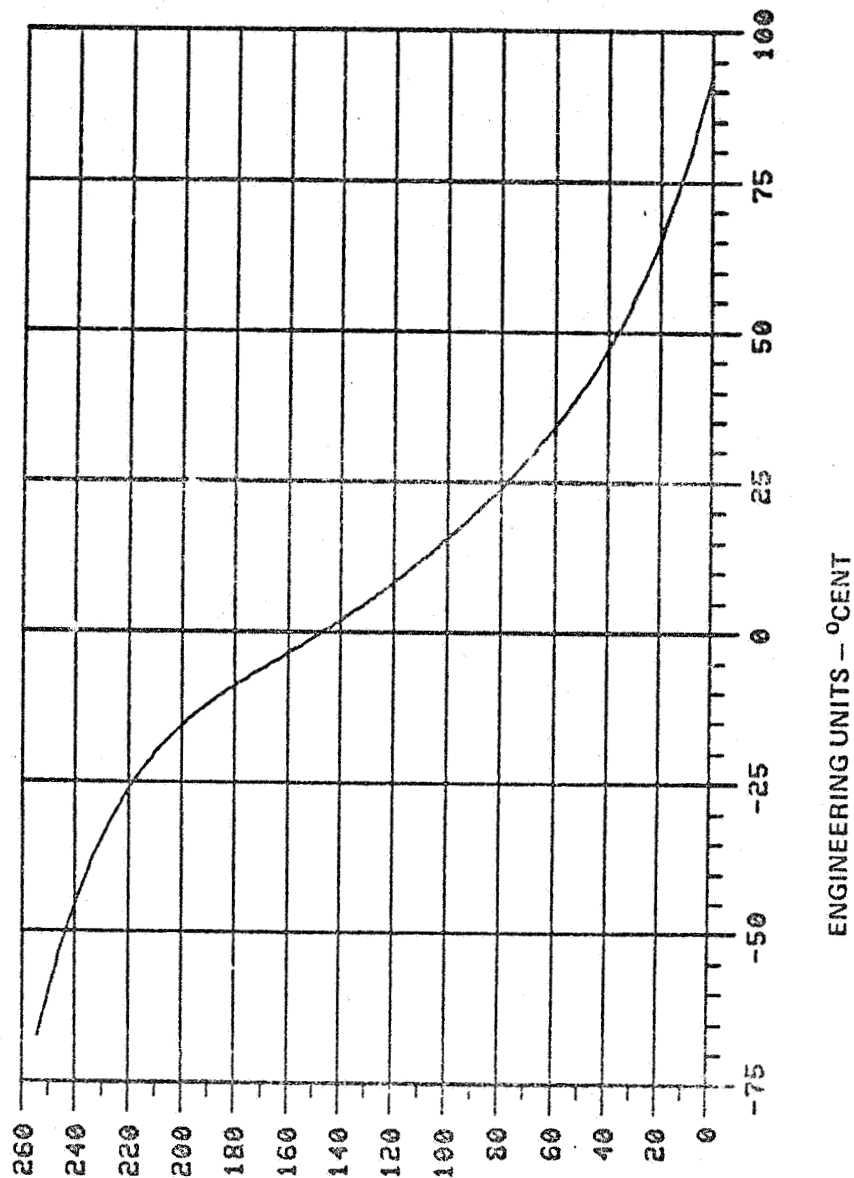
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COUNTS VS ENGINEERING UNITS FOR QTRFCPO



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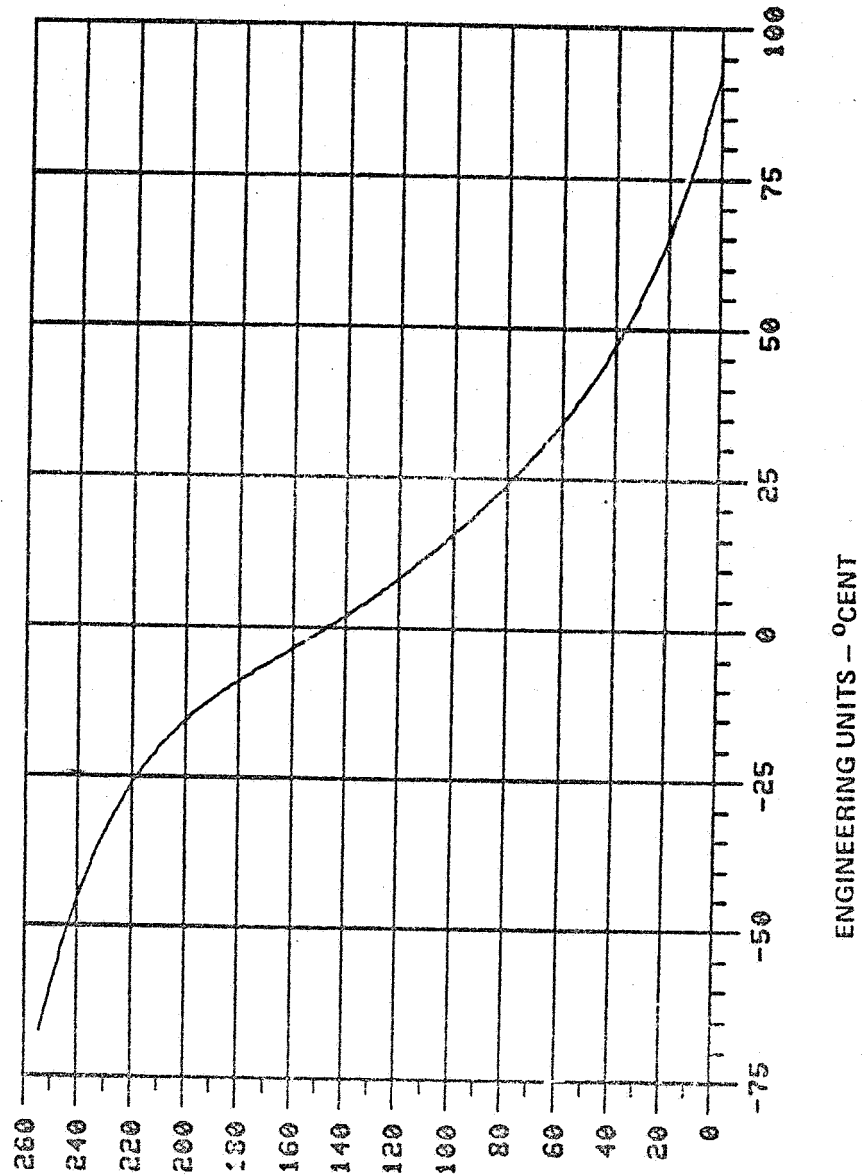
COUNTS VS ENGINEERING UNITS FOR UTRIUGI



TELEMETRY COUNTS

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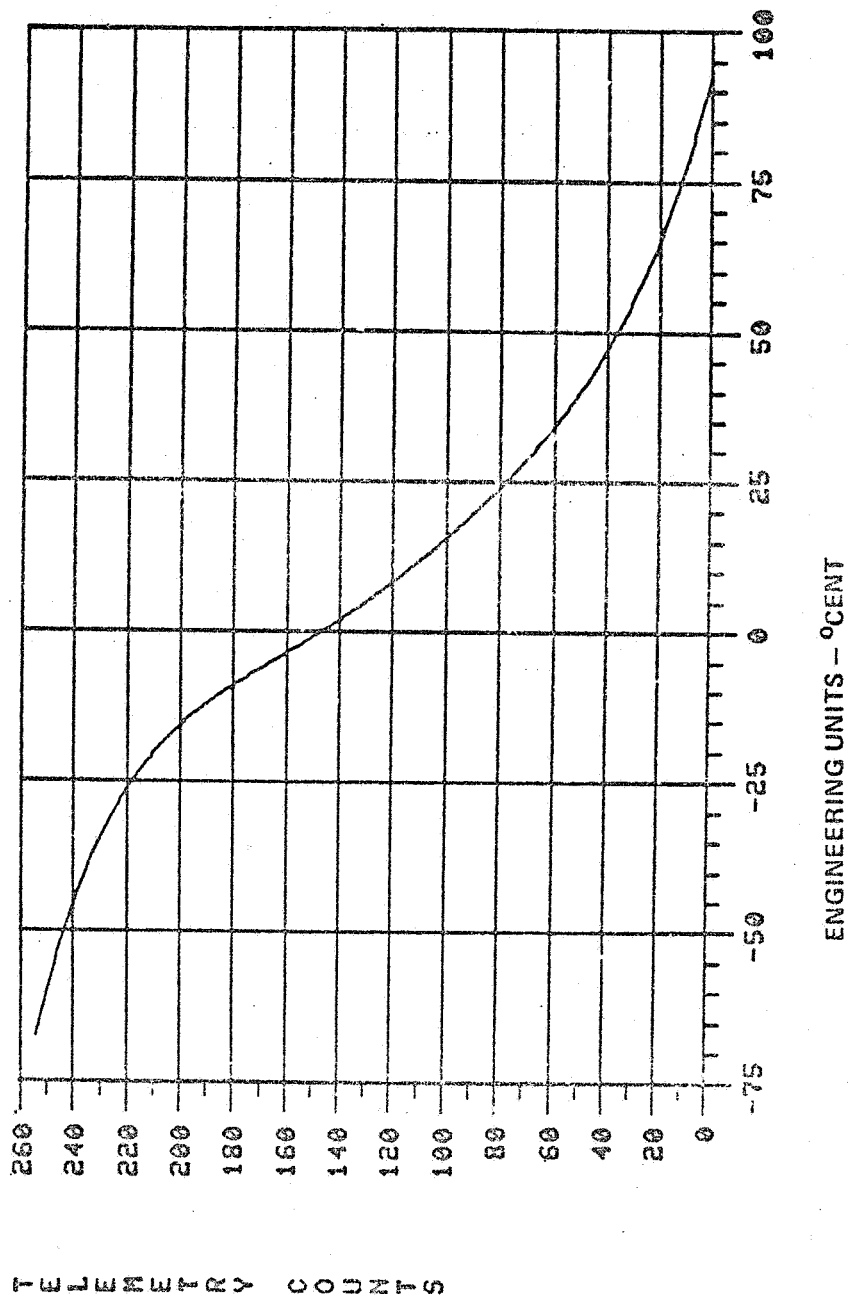
COUNTS VS ENGINEERING UNITS FOR QTR1UG0



TELEMETRY COUNTS

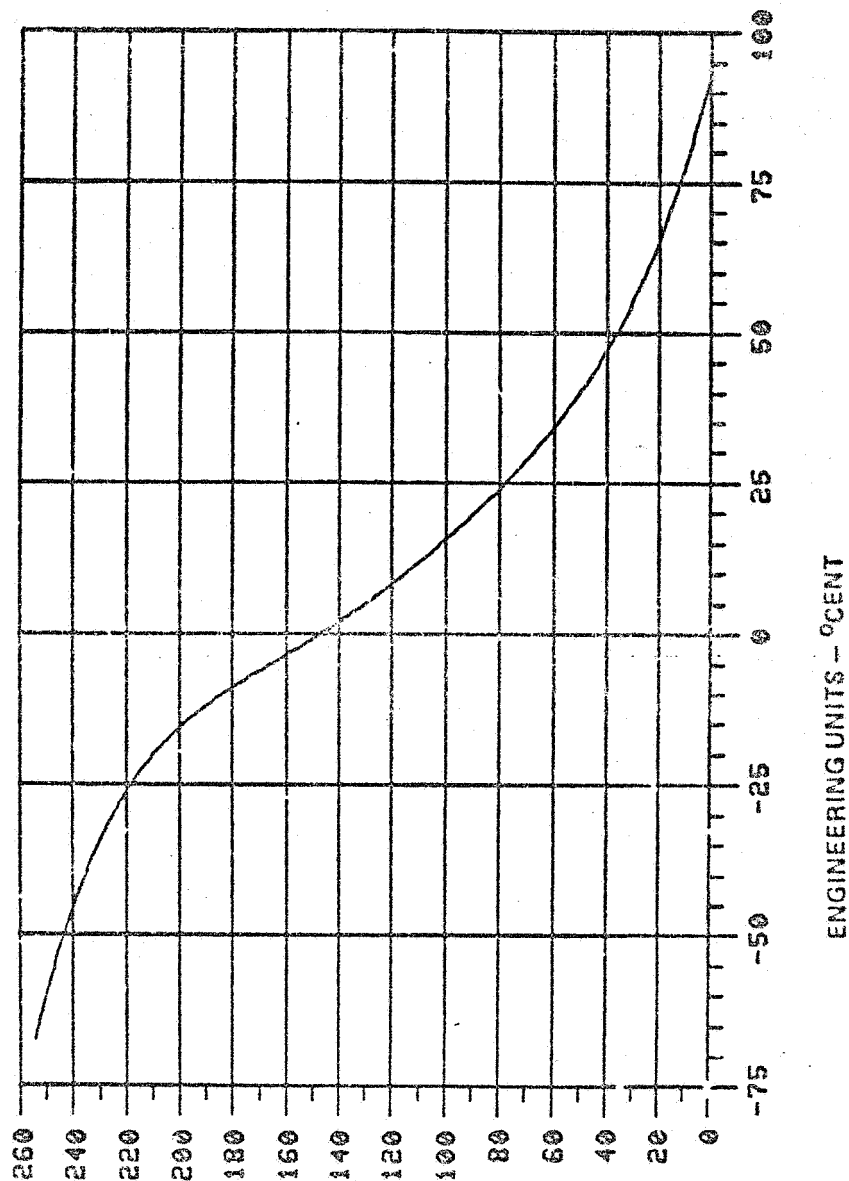
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COUNTS VS ENGINEERING UNITS FOR QTSADPL



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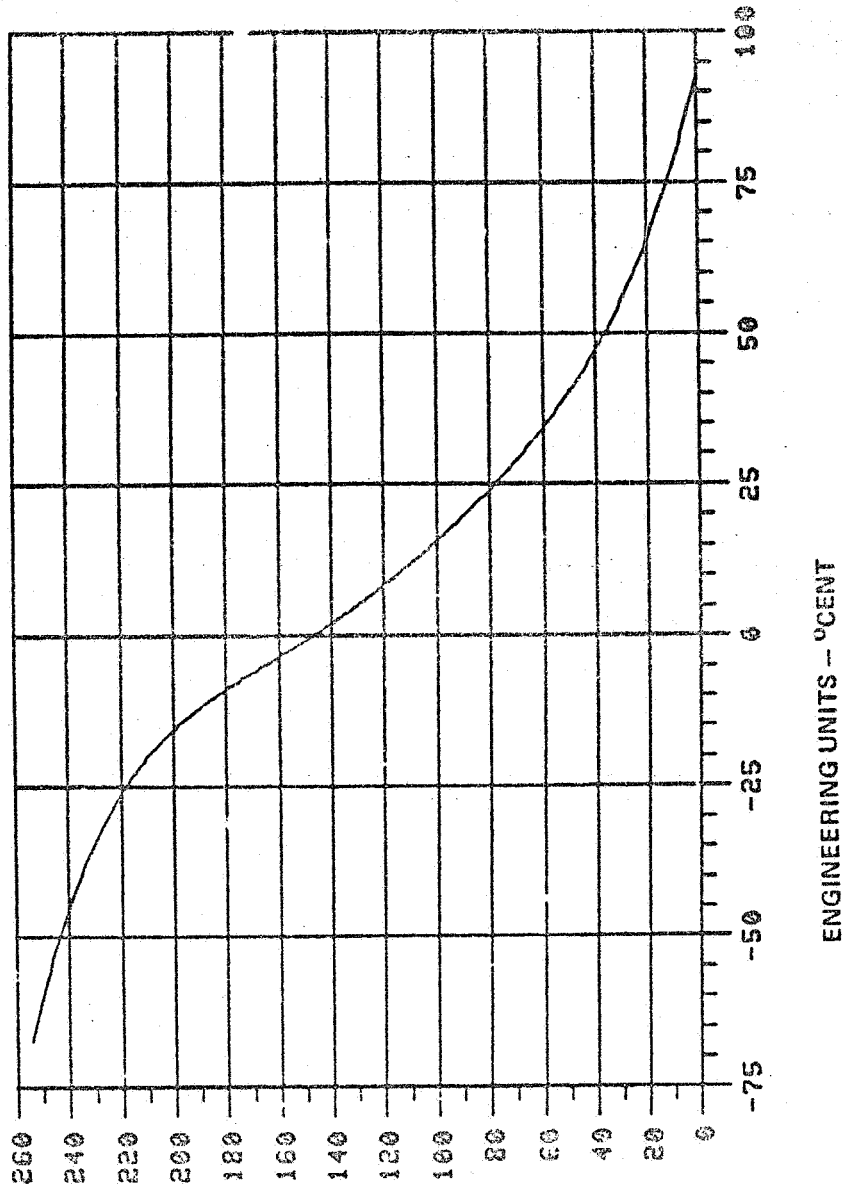
COUNTS VS ENGINEERING UNITS FOR QTSBXP1



TELEMETRY COUNTS

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COUNTS VS ENGINEERING UNITS FOR QTSBXP2

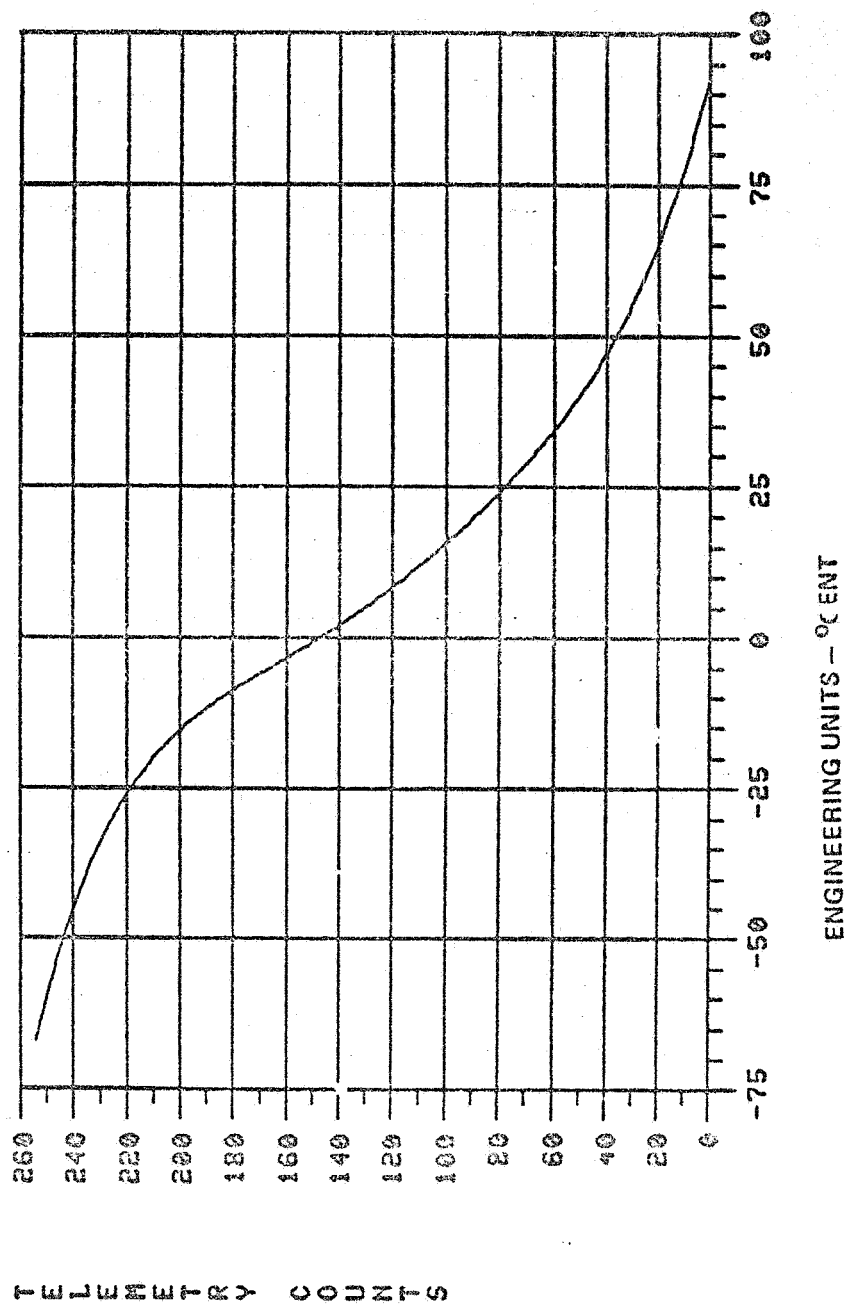


TELEMETRY COUNTS

ENGINEERING UNITS - CENT

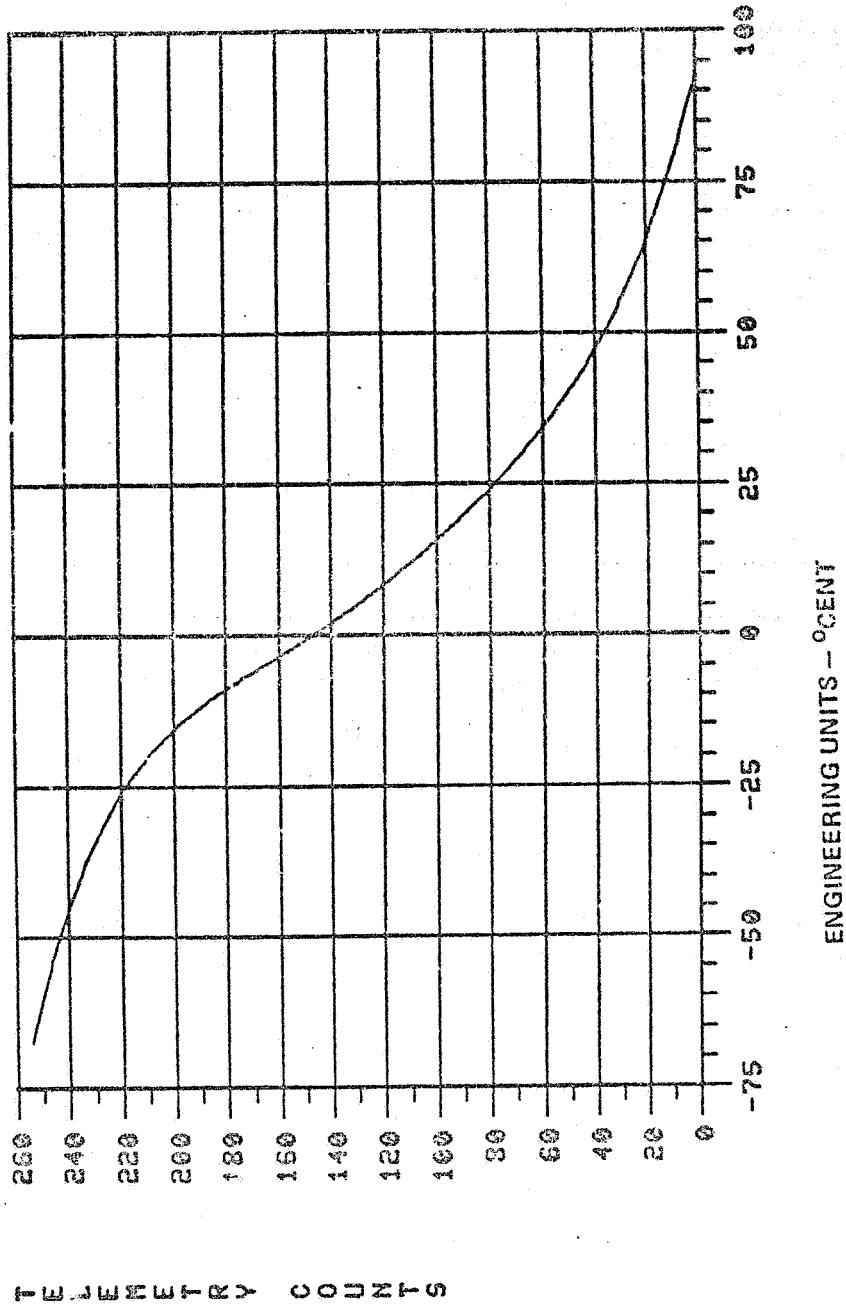
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COUNTS VS ENGINEERING UNITS FOR QTHAF1



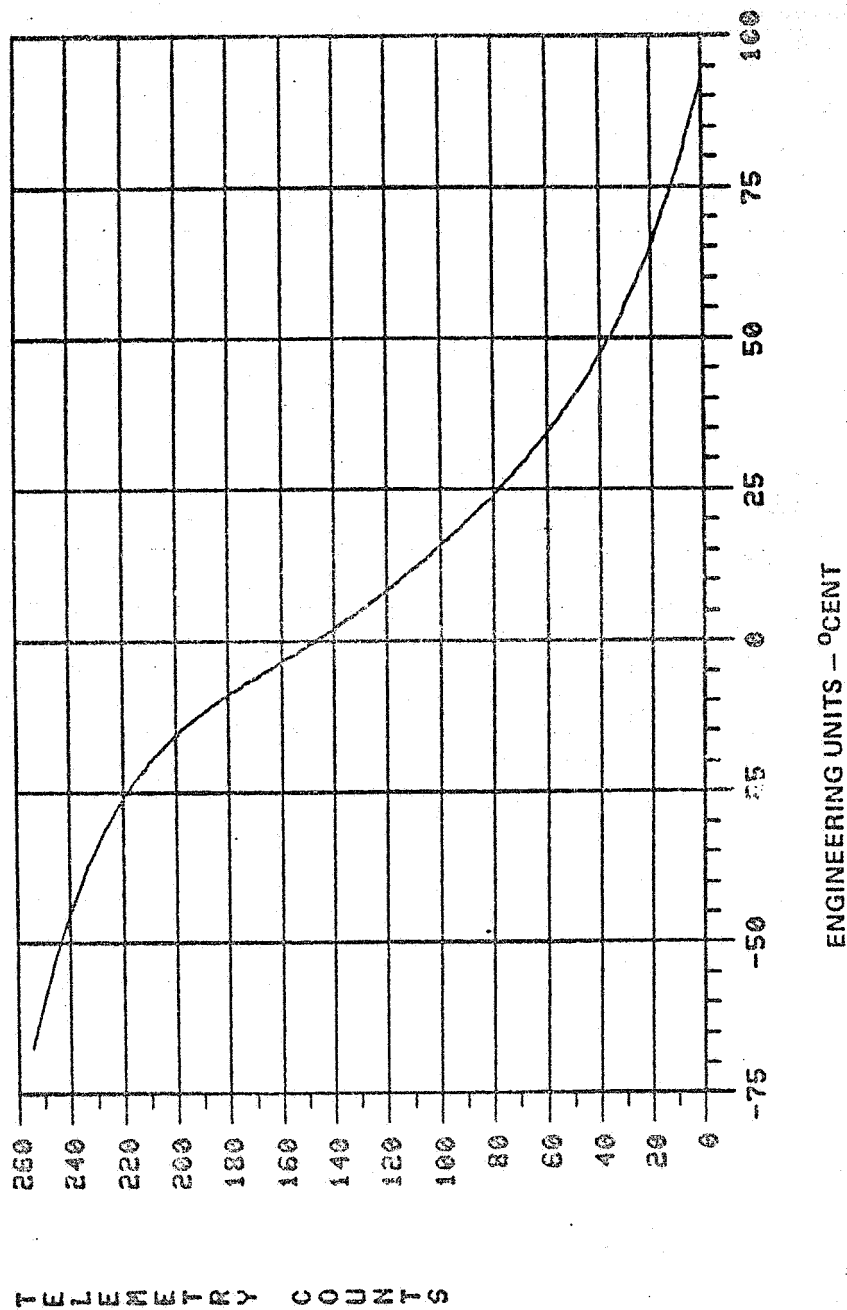
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COUNTS VS ENGINEERING UNITS FOR QTTHAF2



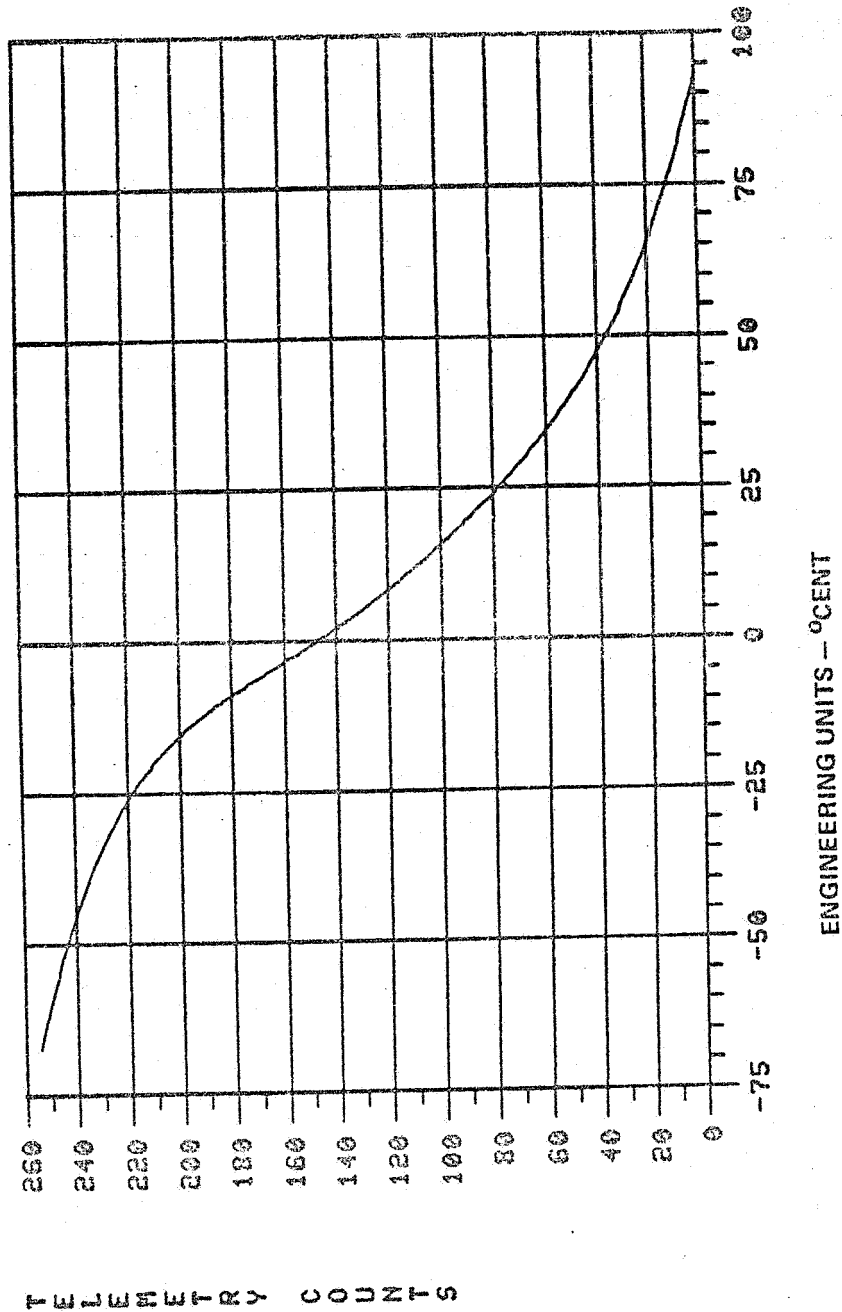
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COUNTS VS ENGINEERING UNITS FOR QTTNAF3



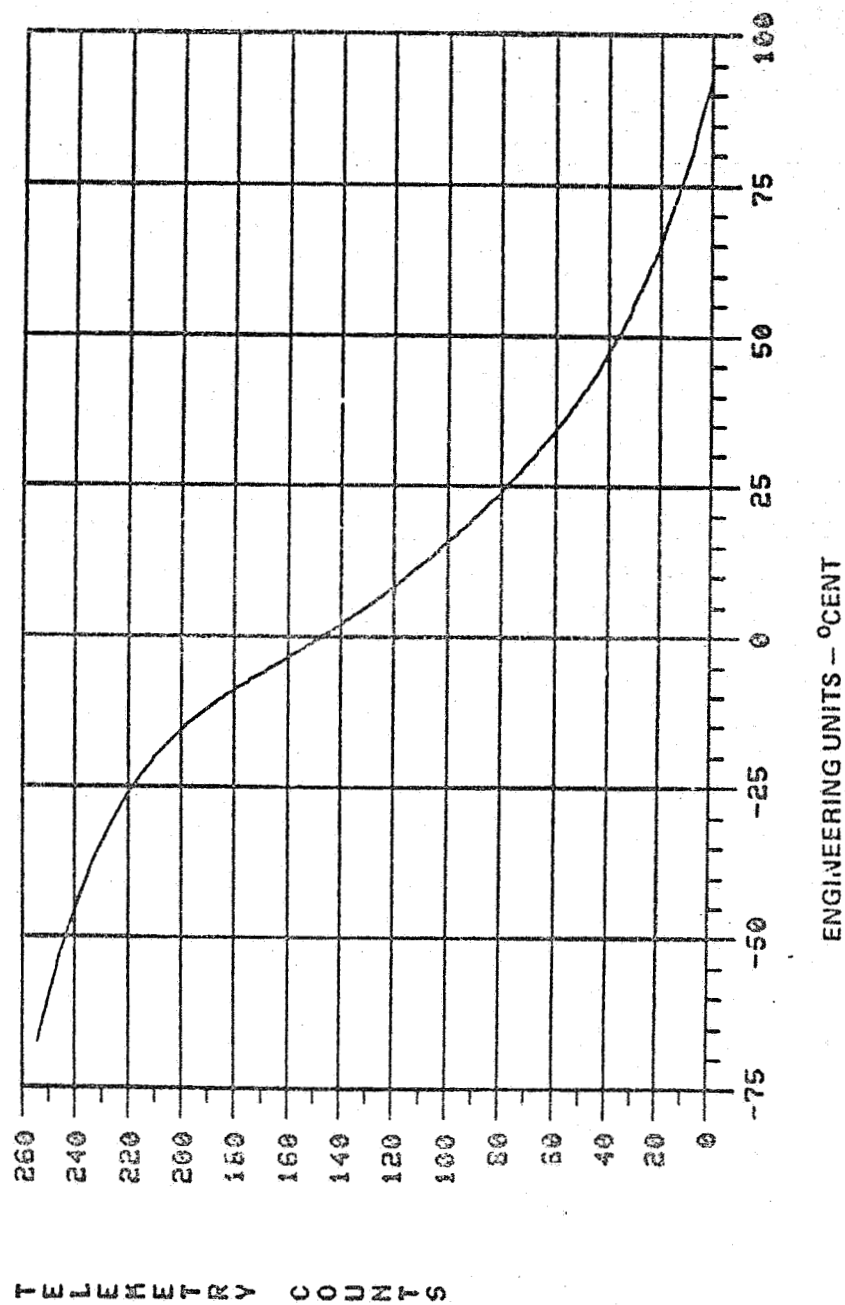
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COUNTS VS ENGINEERING UNITS FOR QTTNAF4



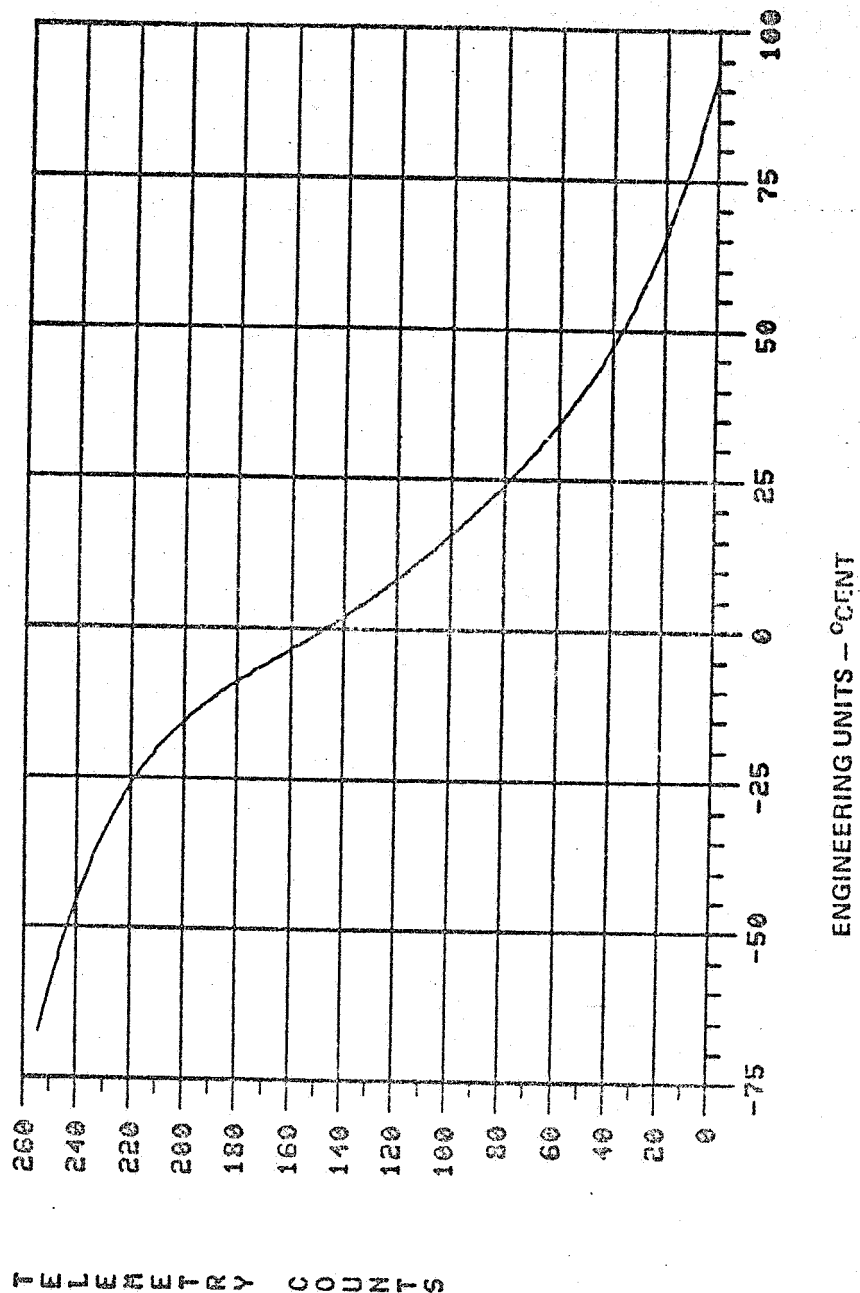
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COUNTS VS ENGINEERING UNITS FOR QTUBIF



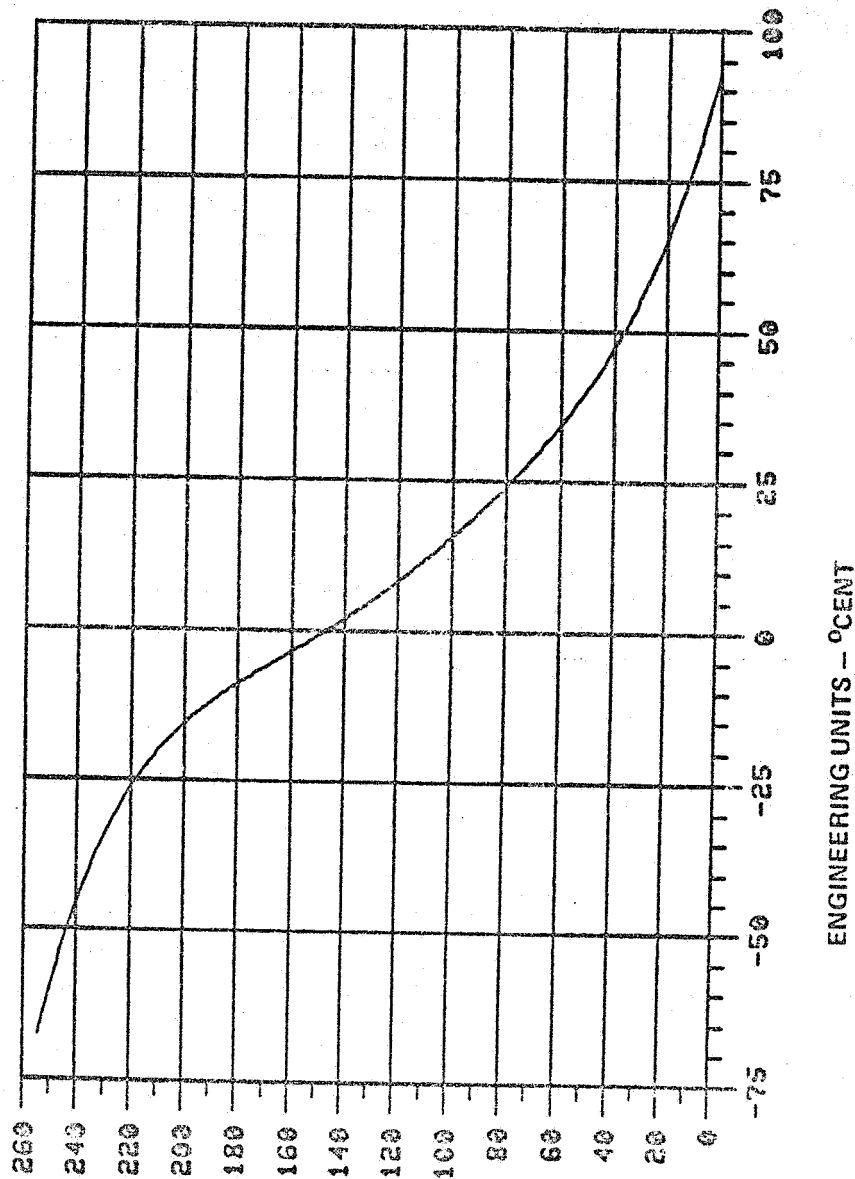
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COUNTS VS ENGINEERING UNITS FOR QTUBPUH



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COUNTS VS ENGINEERING UNITS FOR QTYBKHD



TELEMETRY COUNTS

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APPENDIX A.20

SOLAR ARRAY RETENTION, DEPLOYMENT, AND JETTISON ASSEMBLY (SARDJA)

TELEMETRY CALIBRATION DATA

See Appendix A.11 (PDU Telemetry Calibration Data) for SARDJA telemetry calibration data.

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; PDU POINT DEF.

POINT YACSAIN	; SAFEHOLD A MACS SAFEHOLD SCNL YES/NO
POINT YACSBIN	; SAFEHOLD B MACS SAFEHOLD SCNL YES/NO
POINT YADSPWR	; FORMATTER/ADS POWER ON/OFF
POINT YCSSART	; SAFEHOLD A CSS SAD RATE CONTROL
POINT YCSSBRT	; SAFEHOLD B CSS SAD RATE CONTROL
POINT YDEPLOY	; PDU STATUS WORD NO. 1
POINT YDPLDIR	; DEPLOY MODE FWD/RETRACT
POINT YDPLINH	; DEPLOY INHIBIT LOGIC ENA/DISA
POINT YDPLRET	; SA/LH RETRACT ALLOW/DISALLOW
POINT YDPLSTA	; DEPLOY DRIVING/NOT DRIVING
POINT YDPUPWR	; DPU FULL ON/STANDBY
POINT YELARIU	; PDU A RIU A/B
POINT YELBRIU	; PDU B RIU A/B
POINT YFSBLNK	; TM FSRL LINKS PWR ENA/DISA
POINT YGPSPWR	; GPS PWR ENA/DISA
POINT YHNGHTR	; HINGE HEATERS ON/OFF
POINT YIDXSGA	; SAFEHOLD A AT INDEX POSITION NO/YES
POINT YIDXSGB	; SAFEHOLD B AT INDEX POSITION NO/YES
POINT YLHPOS	; LOWER HINGE DEPLOY/NOT DEPLOY
POINT YLHSEL	; LOWER HINGE SELECT/NOT SELECT
POINT YLSDMOD	; SAD MODE ORBIT/SAFEHOLD
POINT YMOASTA	; MOTOR DRV A (SAD/BOOK) ENA/DISA
POINT YMOBSTA	; MOTOR DRV B (SAD/BOOK) ENA/DISA
POINT YMSAPWR	; MSS PWR A ENA/DISA
POINT YMSRPWR	; MSS PWR B ENA/DISA
POINT YMSHTB	; MSS I/F B HTR ENA/DISA
POINT YPDUDIST	; PDU STATUS WORD NO. 3
POINT YPOUELE	; PDU ELECTRONICS A/B SELECT
POINT YSADCTL	; SAD RATES NOT CONTROLLING/CONTROLLING
POINT YSADINH	; SAD INHIBIT LOGIC ENA/DISA
POINT YSADRT	; SOLAR ARRAY DRIVE RATE
POINT YSADSH	; PDU STATUS WORD NO. 2
POINT YSAHSEL	; ARRAY HINGE SELECT/NOT SELECT
POINT YSALOC1	; SOLAR ARRAY POSITION NO. 1
POINT YSALOC2	; SOLAR ARRAY POSITION NO. 2
POINT YSAPOS	; SOLAR ARRAY DEPLOYED/NOT DEPLOYED
POINT YSAPWR	; DASB PWR A ENA/DISA
POINT YSBBPWR	; DASB PWR B ENA/DISA
POINT YSEGSW1	; SEG SWITCH 1 GT 180/LT 180 DEG
POINT YSEGSW2	; SEG SWITCH 2 GT 180/LT 180 DEG
POINT YSHAAC1	; SAFEHOLD A ACTIVATE DISA/ENA
POINT YSHACTL	; SAFEHOLD A CONTROLLING NO/YES
POINT YSHAMOD	; SAFEHOLD A EARTH SNSR/INERTIAL MODE
POINT YSHASTA	; SAFEHOLD A DISA/ENA
POINT YSHBACT	; SAFEHOLD B ACTIVATE DISA/ENA
POINT YSHBCTL	; SAFEHOLD B CONTROLLING NO/YES
POINT YSHRMOD	; SAFEHOLD B EARTH SNSR/INERTIAL MODE
POINT YSHBSTA	; SAFEHOLD B DISA/ENA

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POINT YSMAHTR
POINT YSR2BUS
POINT YSR2PWR
POINT YTICTOC
POINT YTLOGIC
POINT YTM19V
POINT YTMAPWR
POINT YTMBPWR
POINT YTPS
POINT YU3AHTR
POINT YU3RHTR
POINT YU3CBUS
POINT YU3CHTR
POINT YUHPOS
POINT YUHSEL
POINT YVOLTS
POINT YXSBYHT

; TM SMA HTR PWR ENA/DISA
; SPARE RELAY 2 BUS A/BUS B
; SPARE RELAY 2 ON/OFF
; CMD VERIFICATION TIC/TOC
; PDU LOGIC TEMP
; TM 18V/20V MONITOR
; TM PWR A ENA/DISA
; TM PWR B ENA/DISA
; PDU PWR SUPPLY TEMP
; USS HTR 3A ENA/DISA
; USS HTR 3B ENA/DISA
; USS HTR 3C BUS A/BUS B
; USS HTR 3C ENA/DISA
; UPPER HINGE DEPLOY/NOT DEPLOY
; UPPER HINGE SELECT/NOT SELECT
; +5V SUPPLY VOLTAGE
; TM EXT STANDBY HTR ENA/DISA

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APPENDIX A.21

BOOM ANTENNA RETENTION, DEPLOYMENT, AND JETTISON ASSEMBLY (BARDJA)

TELEMETRY CALIBRATION DATA

See Appendix A.11 (PDU Telemetry Calibration Data) for BARDJA telemetry calibration data.

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; PDU POINT DEF.

POINT YACSAIN	; SAFEHOLD A MACS SAFEHOLD SGNL YES/NO
POINT YACSBIN	; SAFEHOLD B MACS SAFEHOLD SGNL YES/NO
POINT YAOSPPWR	; FORMATTER/AOS POWER ON/OFF
POINT YCSSART	; SAFEHOLD A CSS SAD RATE CONTROL
POINT YCSSBRT	; SAFEHOLD B CSS SAD RATE CONTROL
POINT YDEPLOY	; PDU STATUS WORD NO. 1
POINT YDPLDIR	; DEPLOY MODE FWD/RETRACT
POINT YOPLINH	; DEPLOY INHIBIT LOGIC ENA/DISA
POINT YDPLRET	; SA/LH RETRACT ALLOW/DISALLOW
POINT YDPLSTA	; DEPLOY DRIVING/NOT DRIVING
POINT YDPUPWR	; DPU FULL ON/STANDBY
POINT YELARIU	; PDU A RIU A/B
POINT YELBRIU	; PDU B RIU A/B
POINT YFSBLNK	; TM FSRL LINKS PWR ENA/DISA
POINT YGPSPWR	; GPS PWR ENA/DISA
POINT YHNGHTR	; HINGE HEATERS ON/OFF
POINT YIDXSGA	; SAFEHOLD A AT INDEX POSITION NO/YES
POINT YIDXSGB	; SAFEHOLD B AT INDEX POSITION NO/YES
POINT YLHPOS	; LOWER HINGE DEPLOY/NOT DEPLOY
POINT YLHSEL	; LOWER HINGE SELECT/NOT SELECT
POINT YLSDMOD	; SAD MODE ORBIT/SAFEHOLD
POINT YMDASTA	; MOTOR DRV A (SAD/BOOM) ENA/DISA
POINT YMDBSTA	; MOTOR DRV B (SAD/BOOM) ENA/DISA
POINT YMSAPWR	; MSS PWR A ENA/DISA
POINT YMSRPWR	; MSS PWR B ENA/DISA
POINT YMSHTB	; MSS I/F B HTR ENA/DISA
POINT YPDUDIST	; PDU STATUS WORD NO. 3
POINT YPDUELE	; PDU ELECTRONICS A/B SELECT
POINT YSADCTL	; SAD RATES NOT CONTROLLING/CONTROLLING
POINT YSADINH	; SAD INHIBIT LOGIC ENA/DISA
POINT YSADRT	; SOLAR ARRAY DRIVE RATE
POINT YSADSH	; PDU STATUS WORD NO. 2
POINT YSAHSEL	; ARRAY HINGE SELECT/NOT SELECT
POINT YSALUC1	; SOLAR ARRAY POSITION NO. 1
POINT YSALOC2	; SOLAR ARRAY POSITION NO. 2
POINT YSAPOS	; SOLAR ARRAY DEPLOYED/NOT DEPLOYED
POINT YS3APWR	; DASB PWR A ENA/DISA
POINT YSBBPWR	; DASB PWR B ENA/DISA
POINT YSEGSW1	; SEG SWITCH 1 GT 180/LT 180 DEG
POINT YSEGSW2	; SEG SWITCH 2 GT 180/LT 180 DEG
POINT YSHAAC	; SAFEHOLD A ACTIVATE DISA/ENA
POINT YSHACTL	; SAFEHOLD A CONTROLLING NO/YES
POINT YSHAMOD	; SAFEHOLD A EARTH SNSR/INERTIAL MODE
POINT YSHASTA	; SAFEHOLD A DISA/ENA
POINT YSHBACT	; SAFEHOLD B ACTIVATE DISA/ENA
POINT YSHBCTL	; SAFEHOLD B CONTROLLING NO/YES
POINT YSHBMOD	; SAFEHOLD B EARTH SNSR/INERTIAL MODE
POINT YSHBSTA	; SAFEHOLD B DISA/ENA

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POINT YCHNTR	: TM SMA HTR PWR ENA/DISA
POINT YSR2BUS	: SPARE RELAY 2 BUS A/BUS B
POINT YSR2PWR	: SPARE RELAY 2 ON/OFF
POINT YTICTOC	: CMD VERIFICATION TIC/TOC
POINT YTLOGIC	: PDU LOGIC TEMP
POINT YTM19V	: TM 18V/20V MONITOR
POINT YTMAPWR	: TM PWR A ENA/DISA
POINT YTMBPWR	: TM PWR B ENA/DISA
POINT YTPS	: PDU PWR SUPPLY TEMP
POINT YU3ANTR	: USS HTR 3A ENA/DISA
POINT YU3BHTR	: USS HTR 3B ENA/DISA
POINT YU3CBUS	: USS HTR 3C BUS A/BUS B
POINT YU3CHTR	: USS HTR 3C ENA/DISA
POINT YUHPOS	: UPPER HINGE DEPLOY/NOT DEPLOY
POINT YUHSEL	: UPPER HINGE SELECT/NOT SELECT
POINT YVOLTS	: +5V SUPPLY VOLTAGE
POINT YXSBYHT	: TM EXT STANDBY HTR ENA/DISA

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